

Forestry

Z

5991

.L 77



LIST OF PUBLICATIONS

OF THE

FOREST RESEARCH INSTITUTE, & COLLEGES.

PUBLISHED UP TO 31ST MAY, 1954.

Forestry

Forestry
Gift
6-21-55

Forestry
Z
5991
.L77

**PUBLICATIONS OF THE FOREST RESEARCH INSTITUTE
DEHRA DUN**

Published up to 31st May, 1954.

PUBLIC RELATIONS ORGANISATION SERIES

Indian Forest Bulletins (New Series)

No.

- 142 1950. The practice of forestry compared with agriculture, by C. R. Ranganathan.
Unpriced.

SILVICULTURE SERIES

Indian Forest Bulletins (Old Series)

No.

- 4 1906. *Ficus elastica*: its natural growth and artificial propagation with a description of the method of tapping the tree and of the preparation of its rubber for the market, by E. M. Coventry. *Out of print.*
5 1906. Visit to some European schools of Forestry, by E. P. Stebbing. *Out of print.*
7 1906. Chilgoza forests of Zhob and the Takht-i-Suleman, by E. P. Stebbing. *Out of print.* (Originally published in the entomology series.)
9 1906. Influence of forests on the storage and regulation of the water-supply, by S. Eardley Wilmot. *Out of print.*

Indian Forest Bulletins (New Series)

- 2 1911. Teak plantations in Burma, by F. A. Leete. *Out of print.*
4 1911. Glossary of technical terms for use in Indian forestry, by A. M. F. Caccia and R. S. Troup. *Revised as Indian For. Rec. (n.s.) 2 (1), 1936.*
8 1912. Some germination tests with sal seed (*Shorea robusta*), by R. S. Troup. *Out of print.*
22 1913. Causes and effects of the drought of 1907 and 1908 on the sal forests of the United Provinces, by the same author. *Out of print.*
30 1915. Compilation of girth increments from sample plot measurements, by the same author. *Out of print.*
33 1916. Enquiry by the Government of India into the relation between forests and atmospheric and soil moisture in India, by M. Hill. *Out of print.*
41 1921. Weights of seeds, by S. H. Howard. *Out of print.*
45 1921. Miscellaneous forests of the Kumaon Bhabar, by E. A. Smythies. *Out of print.*
46 1921. Rate of growth of Bengal sal (*Shorea robusta*), I quality, by S. H. Howard. *Out of print.*
47 1922. Volume tables and form factors for sal (*Shorea robusta*), by the same author. *Out of print.*
52 1922. Classification of thinnings. Anon. *Revised as Indian For. Rec. (o.s.) 15 (1), 1930.*
58 1924. General volume tables for chir (*Pinus longifolia*), by S. H. Howard. *Out of print.*
* +62 1925. Preliminary yield table for *Dalbergia sissoo*, by the same author. As. 0-2-0.
65 1925. Tables for bark deductions from logs, by the same author. *Out of print.*
67 1925. Chir (*Pinus longifolia*) seed supply, by the same author. *Out of print.*
78 1932. Problem of the pure teak plantation, by H. G. Champion. *Revised as Indian For. Rec. (n.s.) 5 (1), 1942.*

SILVICULTURE SERIES—(contd.)

Indian Forest Bulletins (New Series)—(contd.)

- *82 1934. Measurement of standing sample trees, by H. G. Champion. Rs. 1-2-0.
- *83 1934. Provisional yield table for *Quercus incana* Roxb. (Banj or Ban oak), by H. G. Champion and I. D. Mahendru. As. 0-14-0.
- *86 1934. Cold weather planting in northern India, by H. G. Champion. As. 0-9-0.
- *87 1934. Von Wulffing yield tables for teak plantations in Java, by the same author. As. 0-14-0.
- *88 1934. Seasonal progress of height growth in trees, by the same author. As. 0-14-0.
- *89 1934. Effect of defoliation on the increment of teak saplings, by the same author. As. 0-3-0.
- *91 1935. Damage by frost at New Forest, Dehra Dun, during 1930 to 1934, by Bachaspati Nautiyal. As. 0-12-0.
- *106 1942. Control of *Lantana* by a sodium chlorate spray, by A. L. Griffith. As. 0-6-0.
- *107 1942. Note on *semul* (*Bombax malabaricum* D.C.), by Jagdamba Prasad. Out of print.
- *130 1946. Effects of burning on the soil as a preliminary to artificial regeneration by A. L. Griffith. Rs. 1-4-0.
- *131 1942. Controlled burning in a chir plantation, by T. V. Dent and S. N. Dabral. Rs. 1-4-0.
- *132 1946. Price-age gradient of Bori. (Hoshangabad, C. P.) teak, by Bakshi Sant Ram. Rs. 1-4-0.
- 133 1946. Afforestation of dry and arid areas, by R. L. Badhwar, A. C. Dey and A. L. Griffith. Rs. 1-4-0.
- *135 1947. Recording of soil and site characteristics in the field, by A. L. Griffith & R. S. Gupta. As. 0-8-0.
- *138 1947. Determination of the characteristics of soil suitable for sal (*Shorea robusta*), by the same authors. As. 0-7-0.
- *141 1947. Soil in relation to teak with special reference to laterisation, by A. L. Griffith & R. S. Gupta. Rs. 2-4-0.
- 162 1952. Notes on the utilization and silviculture of the timbers used in wood based industries of India compiled in the Silviculture Branch, Forest Research Institute, Dehra Dun. Rs. 1-12-0.
- 169 1953. The trees species of the tropical evergreen Ghat forests of Kanara (Bombay) and their rate of growth by G. S. Mathauda. Rs. 1-8-0.
- 172 An investigation into thinning cycles for young chir (*Pinus longifolia*) at New Forest, Dehra Dun, by V. S. Krishnaswami and G. S. Mathauda. As. 0-14-0.

Indian Forest Leaflets

- 22 1942. Possible war-time sources of vegetable rubber in India, by T. V. Dent. Out of print.
- *27 1942. Notes on some aspects of erosion control, by Jagdamba Prasad. Reprinted 1946. As. 0-8-0.
- 38 1943. Land use and erosion, by the same author. Reprinted 1947. As. 0-6-0.
- 38 1950. Land use and erosion by the same author. (Hindi edition.) Unpriced.
- +60 1944. Short note on the beedi leaf industry, by the same author. Reprinted 1949. As. 0-8-0.
- +64 1944. Growing of *Cryptostegia grandiflora* as a war-time emergency plantation crop, by A. L. Griffith. As. 0-4-0.
- +82 1945. Fodder trees in India, by M. V. Laurie. As. 0-8-0.
- +83 1945. Efficiency of enumerations 1.—The problem, by A. L. Griffith. As. 0-4-0.
- +84 1945. Efficiency of enumerations 2.—Madras tropical wet evergreen forest. 3.—Typical calculations, by the same author. As. 0-8-0.

SILVICULTURE SERIES—(contd.)

Indian Forest Leaflets—(concl'd.)

- +85 1945. Efficiency of enumerations 4.—Madras moist-mixed deciduous forest, by the same author. As. 0-8-0.
- +86 1945. Efficiency of enumerations 5.—Upper Assam tropical evergreen forest. 6.—Typical calculations, by the same author. As. 0-6-0.
- +87 1945. Efficiency of enumerations 7.—Distribution of the volume figures, by the same author. As. 0-6-0.
- +88 1945. Efficiency of enumerations 8.—*Chir* (*Pinus longifolia*) forest in the Punjab and United Provinces, by the same author. As. 0-6-0.
- +89 1945. Efficiency of enumerations 9.—Distribution of the volume figures (contd.), by the same author. As. 0-4-0.
- +90 1946. Efficiency of enumerations 10.—Hill sal (*Shorea robusta*) forest in the United Provinces, by the same author. As. 0-6-0.
- +91 1946. Efficiency of enumerations 11.—Distribution of the volume figures (contd.) by the same author. As. 0-4-0.
- *93 1946. Efficiency of enumerations 12.—One species in a mixed forest (Teak in a Madras moist-mixed deciduous forest) 13.—Confirmation of the *chir* (*Pinus longifolia*) and sal (*Shorea robusta*) data 14.—Summary of indications, by the same author. As. 0-5-0.
- *94 1946. Classification of silvicultural ledger files (sixth edition). As. 0-6-0.
- *96 1947. Efficiency of enumerations XV.—Sal (*Shorea robusta*) forest in Dehra Dun division of the United Provinces, by A. L. Griffith. As. 0-3-0.
- *117 1950. Yield tables for *Acacia mollissima*. As. 0-12-0.
- *120 1951. Unimeter; a versatile field instrument for foresters, surveyors, engineers and plane-tables, by K. Kadambi. As. 0-3-0.
- *130 1952. General formulæ for measurement of heights of trees, by V. S. Krishnaswamy. As. 0-12-0.

Indian Forest Memoirs

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (1) 1916. *Pinus longifolia* Roxb. A silvicultural study, by R. S. Troup. Rs. 5-0-0.

Forest Pamphlets

- 3 1908. Glossary of technical terms for use in Indian forestry, by A. M. F. Caccia. Revised as *Indian For. Rec.* (n.s.) (2) (1), 1936.
- 5 1909. Sal in Bengal, by A. L. McIntire. *Out of print.*
- 6 1909. Forest reservation in Burma in the interests of an endangered water supply, by A. Rodger. *Out of print.*
- 8 1909. Collection of statistical data relating to the principal Indian species, by A. M. F. Caccia. *Out of print.*
- 9 1910. Table showing the progress in working plans in the provinces outside the Madras and Bombay Presidencies up to 31st December, 1908, by the same author. *Out of print.*
- 16 1910. Best season for coppice fellings of teak (*Tectona grandis*), by R. S. Hole. *Out of print.*

Indian Forest Records (Old Series)

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (2) 1908. Preliminary note on the development of the sal in volume and money-value, by A. M. F. Caccia. *Out of print.*
- 1 (4) 1909. 2. Selection system in Indian forests as exemplified in working plans based on this system with a short description of some continental methods, by the same author. *Out of print.*
- 2 (3) 1910. 1. Silviculture of *Hardwickia binata* (anjan), by D. O. Witt. *Out of print.*
- 2. Notes on sandal (Germination and growth of sandal seedlings), by M. Rama Rao. *Out of print.*

SILVICULTURE SERIES—(contd.)
Indian Forest Records (Old Series)—(contd.)

- 2 (4) 1911. Host plants of the sandal tree, by the same author. *Out of print.*
- 3 (1) 1911. Some statistical and other information regarding the teak forests of Burma, by R. S. Troup. *Out of print.*
- 5 (2) 1913. Blue gum plantations of the Nilgiris (*Eucalyptus globulus*), by the same author. *Out of print.*
- 6 (2) 1917. Statistics compiled in the Office of the Silviculturist. Forest Research Institute, Dehra Dun, during 1915-16. *Out of print.*
- 6 (5) 1918. Statistics compiled in the Office of the Silviculturist, Forest Research Institute, Dehra Dun, during 1916-17. *Out of print.*
- 7 (8) 1920. Afforestation of ravine lands in the Etawah district, U.P., by E. A. Smythies. *Out of print.*
- 8 (2) 1921. Regeneration of sal (*Shorea robusta*) forests, A study in economic ecology, by R. S. Hole. *Out of print.*
- 8 (4) 1922. Artificial regeneration in Bengal, by A. K. Glasson and others. *Out of print.*
- 9 (7) 1923. Possibilities of camphor cultivation from *Cinnamomum camphora* in Northern India, by S. H. Howard and others. *Out of print.*
- 10 (3) 1923. Sal (*Shorea robusta*) yield table for the United Provinces with an account of the types and distribution of sal forests in the U.P., by E. A. Smythies and S. H. Howard. *Out of print.*
- 10 (6) 1924. General volume tables for sal (*Shorea robusta*) classified by diameter and height, by S. H. Howard. *Out of print.*
- 11 (2) 1925. Contributions towards a knowledge of twisted fibre in trees, by H. G. Champion. *Out of print.*
- 11 (3) 1925. Regeneration with the assistance of taungya in Burma, by H. R. Blandford. *Out of print.*
- 11 (7) 1925. Volume tables for teak (*Tectona grandis*) and sal (*Shorea robusta*) for the Central Provinces, by V. K. Maitland. *Out of print.*
- 12 (1) 1925. Volume and outturn tables for sal (*Shorea robusta*), by S. H. Howard. *Out of print.*
- 12 (4) 1926. Yield table for clear-felled sal (*Shorea robusta*) coppice, by the same author. *Out of print.*
- 12 (5) 1926. Yield and volume tables for chir (*Pinus longifolia*), by the same author. *Out of print.*
- 12 (6) 1926. Yield and volume tables for deodar (*Cedrus deodara*), by the same author. *Out of print.*
- 12 (9) 1926. Artificial regeneration in North India, by the same author. *Out of print.*
- +13 (3) 1928. Commercial volume tables for sal (*Shorea robusta*) in the wet mixed forests of the Bengal Duars, by Parma Nand Suri. As. 0-6-0.
- +13 (4) 1928. Volume tables for sundri (*Heritiera fomes*, Buch. Syn. *H. minor* Roxb.) in the Sunderbans, Bengal, by the same author. As. 0-10-0.
- +13 (7) 1928. Slash in chir pine (*Pinus longifolia*) forests; Causes of formation, its influence and treatment, by J. E. C. Turner. Rs. 3-6-0.
- +13 (8) 1929. Volume and outturn tables for blue pine (*Pinus excelsa*, Wall), by H. G. Champion, I. D. Mahendru and Parma Nand Suri. Rs. 1-2-0.
- +13 (9) 1929. Commercial timber (*katha*) and heartwood volume tables for *khair* (*Acacia catechu* Willd) in North India, by the same authors. As. 0-14-0.
- +13 (10) 1929. Yield tables for blue pine (*Pinus excelsa*, Wall), by the same authors. Rs. 1-9-0.
- +14 (2) 1929. Denudation of the Punjab hills, by B. O. Coventry. Rs. 1-4-0.
- 15 (1) 1930. Classification of thinnings. *Out of print.*
- 15 (2) 1930. Glossary of technical terms for use in Indian forestry. Revised as *Indian For. Rec.* (n.s.) 2 (1). 1936.

SILVICULTURE SERIES—(contd.)

Indian Forest Records (Old Series)—(concl'd.)

- 15 (3) 1931. Standard, commercial and heartwood volume tables. Factory working for *khair* (*Acacia catechu* Willd.) in North India, by H. G. Champion and I. D. Mahendru. *Out of print.*
- 15 (4) 1932. Volume tables and diameter growth curve for *semul* (*Bombax malabaricum* D.C.), by I. D. Mahendru. *Out of print.*
- 15 (5) 1932. Provisional volume tables and diameter growth curves for *semul* (*Bombax malabaricum* D.C.) in the Central Provinces, by the same author. *Out of print.*
- 16 (6) 1932. Branch small wood tables for *Shorea robusta*, *Tectona grandis*, *Cedrus deodara*, *Pinus excelsa* and *P. longifolia*; compiled in the Statistical Section, F. R. I. *Out of print.*
- 15 (7) 1933. Provisional volume tables and diameter growth curves for *Holoptelea integrifolia* (kanju) and *Trewia nudiflora* (gutel), by I. D. Mahendru. *Out of print.*
- 15 (8) 1933. Multiple yield tables for deodar (*Cedrus deodara* Lou.), by H. G. Champion and I. D. Mahendru. *Out of print.*
- +16 (5) 1931. Investigations on the seed and seedlings of *Shorea robusta* Gaertn. F., by H. G. Champion and B. D. Pant. Rs. 1-6-0.
- 16 (6) 1932. Use of stumps (Root and shoot cuttings) in artificial regeneration, by the same authors. *Out of print.*
- +16 (7) 1932. Notes on *Pinus longifolia* Roxb.—Plantations in Dehra Dun and the Central Provinces and miscellaneous seed studies, by the same authors. Rs. 1-10-0.
- +17 (2) 1932. Treatment of *babul* (*Acacia arabica*) in Berar, by S. A. Vahid. *Out of print.*
- +17 (4) 1933. Sutelj Deodar—Its ecology and timber production, by R. M. Gorrie. As. 0-6-0.
- 17 (5) 1933. Importance of the origin of seed used in forestry, by H. G. Champion.
- +18 (12) 1933. Stand table for sal (*Shorea robusta*), evenaged high forest, by I. D. Mahendru. As. 0-5-0.
- +19 (3) 1933. Regeneration and management of sal (*Shorea robusta*), by H. G. Champion. Rs. 5-0-0.
- +20 (16) 1935. Stand table for sal (*Shorea robusta*), evenaged high forest and coppice. As. 0-12-0.

Indian Forest Records (New Series)

- 1 (1) 1936. Preliminary survey of forest types of India and Burma, by H. G. Champion. *Out of print.*
- *1 (2) 1936. Study of the soils in the hill area of the Kulu Forest Division, Part 1—An investigation of soil-profiles under deodar, spruce, blue pine and *chir* by E. McKenzie Taylor, I. D. Mahendru, M. L. Mehta and R. C. Hoon. Rs. 2-2-0.
- *1 (3) 1935. Distribution of sesquioxides, silica and organic matter in forest soil profiles of Kulu hill area, by R. C. Hoon. As. 0-12-0.
- +2 (1) 1936. Glossary of technical terms for use in Indian Forestry. (Reprinted 1946). As. 0-5-0.
- *2 (2) 1936. Standard and commercial volume tables for *Dalbergia sissoo*, by M. A. Kakazai. As. 0-8-10.
- *2 (3) 1936. Stand table for *chir* (*Pinus longifolia* Roxb.) evenaged high forest compiled in the Silviculture Branch. As. 0-12-0.
- *2 (4) 1937. Silviculture and management of the bamboo (*Dendrocalamus strictus*) by P. N. Deogun. (Reprinted 1940). Rs. 4-4-0.
- *2 (5) 1937. Seed weights plant per cents, etc., for forest plants in India, by J. N. Sen Gupta. Rs. 3-0-0.
- *2 (6) 1937. Formation of heartwood and its amount in deodar timber, by M. A. Kakazai. Rs. 2-4-0.

SILVICULTURE SERIES—(contd.)

Indian Forest Records (New Series)—(contd.)

- *2 (7) 1938. Synecological study of the forests of Western Singhbhum with special reference to their geology, by H. F. Mooney. Rs. 4-2-0.
- *3 (1) 1938. Investigation into the best root length of stump to use when stump planting teak (*Tectona grandis*) in areas having a general West Coast type of climate, by A. L. Griffith. As. 0-8-0.
- *3 (2) 1938. Investigation into the best date of stump planting teak (*Tectona grandis*) at Begur, Dhoni and Topalip, by the same author. *Out of print.*
- *3 (3) 1938. Investigation into the relative merits of planting teak (*Tectona grandis*) stumps in pits and in crowbar holes in areas having a West Coast type of climate by the same author. As. 0-6-0.
- *3 (4) 1939. *Dipterocarpus (gurjan)* forests in India and their regeneration, by J. N. Sen Gupta. Rs. 4-14-0.
- *3 (5) 1939. Investigation into the best age and diameter of stump to use when stump planting teak (*Tectona grandis*) in areas having a general West Coast type of climate, by A. L. Griffith. Re. 1-0-0.
- *3 (6) 1939. Study of the soils in the hill areas of Kashmir. An investigation of soil profiles under deodar, blue pine, silver fir and chir, by R. C. Hoon. Rs. 1-14-0.
- *3 (7) 1939. Control and eradication of new outbreaks of the spike disease of sandal (*Santalum album*), by Rao Sahib S. Rangaswami and A. L. Griffith. Rs. 1-6-0.
- *3 (8) 1940. Artificial regeneration of the dry fuel forests of the Madras Province, by A. L. Griffith. Rs. 1-14-0.
- *4 (1) 1940. Canadian aerial forestry for Burma, by J. D. Braithwaite. Rs. 3-12-0.
- *4 (2) 1939. Investigation into the relative merits and costs of five different weeding methods in the formation of teak (*Tectona grandis*) plantations in area having West Coast type of climate, by A. L. Griffith. Rs. 1-10-0.
- *4 (3) 1941. Cultivation of the tung-oil tree (*Aleurites* spp.) in India, by M. V. Laurie and J. N. Sen Gupta. *Out of print.*
- *4 (4) 1941. Investigation into artificial regeneration details of the dry fuel forest of Madras, by A. L. Griffith. Rs. 2-8-0.
- *4 (5) 1942. Stump production in Madras teak nurseries, by the same author. Rs. 1-8-0.
- *4-A(1) 1940. Yield and stand tables for teak (*Tectona grandis* Linn. f.) plantations in India and Burma, by M. V. Laurie and Bakshi Sant Ram. Rs. 4-6-0.
- *4-A(2) 1941. Provisional yield tables for (*Dalbergia sissoo* Linn. f.) in the irrigated plantations of the Punjab, by Bakshi Sant Ram. Rs. 2-8-0.
- *4-A(3) 1942. Standard and commercial volume tables for teak (*Tectona grandis* Linn. f.) in the Central Provinces, by the same author. Rs. 2-4-0.
- +4-A(4) 1943. Yield and stand tables for sal (*Shorea robusta* Gaertn. f.) high forest, by A. L. Griffith and Bakshi Sant Ram. (*Reprinted 1948*). Rs. 6-10-0.
- *4-A(5) 1947. General standard and commercial volume tables for *Terminalia tomentosa* W. & A., by A. L. Griffith and others. Rs. 1-2-0.
- 5 (1) 1942. Problem of the pure teak plantation (A revision of Bulletin No. 78 of 1932), by M. V. Laurie and A. L. Griffith. *Out of print.*
- 5 (2) 1942. Teak plantation technique by A. L. Griffith. *Out of print.*
- +6 (1) 1946. English translation of the results of an erosion experiment published in the Proceedings of the Swiss Forest Research Institute, Vol. 23, Part 1—1945, by Hans Burger, translated by A. L. Griffith and C. W. A. Sondermann. Rs. 1-11-0.
- *6 (2) 1946. Stomates and early growth of some timber trees of the Malabar Coast, by A. L. Griffith. Rs. 2-12-0.
- *6 (3) 1947. Glossary of terms used in plant ecology, by N. L. Bor. As. 0-4-0.
- *7 (1) 1948. Seed storage—with particular reference to the storage of seed of Indian forest plants, by T. V. Dent. Rs. 3-14-0.

SILVICULTURE SERIES—(concl'd.)

Indian Forest Records (New Series)—(concl'd.)

- 7 (2) 1950. Burma forest types, according to Champion's classification, by M. V. Edward. Rs. 2-2-0.
- 7 (3) 1951. Tables showing the cubic contents of round and squared timber and the values of the same at various rates, arranged by L. Mercer, assisted by Nand Mal. Rs. 4-10-0.
- 7 (4) 1952. Forests catchment areas and water supplies by E. P. Stebbing Rs. 3-12-0.
- *8 (1) 1949. *Aleurites fordii*, Hemsl., by J. Prasad. Rs. 1-10-0.

Other Publications

- +1910 Practical determination of the girth increment of trees, by R. S. Troup. As. 0-4-0.
- +1916 Note entitled "Among the *Eucalyptus*", by R. C. Milward. Rs. 3-4-0.
- +1915 Note on the forests of Java and Madoera, by the same author. As. 0-13-0.
- +1926 Elementary Silviculture in Urdu, by Mohd. Hakim-ud-Din. Rs. 1-8-0.
- +1922 Methods of preparing volume and money yield tables for teak wood and volume and form factor tables for teak trees from data collected in the Nilambur teak plantation of the South Malabar Division, by R. Bourne. Rs. 9-0-0.
- 1927 System of filing information on forestry, by S. H. Howard. *Out of print.*
- *1933 Tables for use with Brandis Hypsometer for measuring the height of trees, etc., by F. B. Manson and H. H. Haines. As. 0-10-0.
- 1916 Note on some European silvicultural systems, with suggestions for improvement in Indian forest management, by R. S. Troup. *Out of print.*
- 1950 Proceedings of the 7th Silvicultural Conference, Dehra Dun, October 28th to November 6th, 1946. *Unpriced.*

Manuals

- 1910 Preparation of forest working plans in India, by W. E. D'Arcy. Revised by A. M. F. Caccia (4th edition). *Out of print.*
- 1931 Silviculture Research Manual for use in India, Vol. 1—(Experimental Manual) by H. G. Champion. *Out of print.*
- 1931 Silviculture Research Manual for use in India, Vol. 2—(Statistical Code) by H. G. Champion and I. D. Mahendru. *Out of print.*
- +1926 Manual of Forest Mensuration. Revised by C. Simmons. *Out of print.*
- +1922 Schlich's Manual of Forestry, Vol. 1 (4th edition). Rs. 7-8-0.
- *1948 Silviculture Research Code, Vol. 2.—Statistical Manual, by A. L. Griffith and Bakshi Sant Ram. Rs. 11-2-0.
- 1949 Silviculture Research Code, Vol. 3.—Tree and crop measurement, by A. L. Griffith and J. Prasad. Rs. 13-6-0.

Publications printed outside India

- +1921 Silviculture of Indian Trees, by R. S. Troup, 3 Vols. For forest officers and departmental libraries. Rs. 40-0-0. For public. Rs. 78-12-0.
- 1938 Manual of Indian Silviculture. Part I—General Silviculture, by H. G. Champion and Part 2.—Silviculture Systems, by Sir Gerald Trevor. *Out of print.*
- 1947 Manual of General Silviculture for India, by H. G. Champion and A. L. Griffith (Obtainable from Messrs. Oxford University Press, Bombay/Calcutta/Madras). Rs. 25-0-0. *Out of print.*
- +1926 Measurements of the Cubical Contents of Forest Crops, Oxford Forestry Memoirs No. 4, by M. D. Chaturvedi. Rs. 4-0-0.

STATISTICAL SERIES

Indian Forest Bulletins (New Series)

No.

- 146 1949. The efficiency of enumerations. I. Volume estimation of standing timber by sampling. II. Random and systematic sampling in timber surveys, by D. J. Finney. Rs. 1-14-0.

Indian Forest Leaflet

- 109 1950. On the application of statistical quality control methods in wood-base industries, by K. R. Nair (For official use only).
 131 1953. Statistical methods in forest products research, by K. R. Nair. As. 0-7-0.
 134 1953. Statistical methods in forest research, by K. R. Nair. As. 0-7-0.

BOTANY SERIES

Indian Forest Bulletins (New Series)

- 23 1914. Preparation of Indian forest floras and descriptive lists, by R. S. Hole. *Out of print.*
 25 1914. Development of the culms of grasses, by the same author. *Out of print.*
 +61 1925. Eucalyptus in the plains of North-West India, by R. N. Parker. As. 0-5-0.
 +63 1925. Eucalyptus trees in the Simla Hills, by the same author. As. 0-8-0.
 +73 1931. Herbarium of the Forest Research Institute, by the same author. As. 0-5-0. *Out of print.*
 +76 1932. List of plants collected in West Nepal. As. 0-4-0. *Out of print.*
 *80 1933. List of trees and shrubs for the Kashmir and Jammu Forest Circles, by W. J. Lambert. As. 0-12-0.
 *109 1942. Hints for botanical collectors, by M. B. Raizada. As. 0-2-0.

Indian Forest Memoirs

(N.B.—The part number is indicated within brackets after the volume number.)

- +1 (1) 1911. Some Indian forest grasses and their ecology, by R. S. Hole. Rs. 5-8-0

Indian Forest Records (Old Series)

- 4 (3) 1913. Useful exotics in Indian forests (No. 1—*Prosopis juliflora*, DC.), by R. S. Hole. *Out of print.*
 4 (4) 1913. On *Albizzia lathamil*, by the same author. *Out of print.*
 5 (4) 1914-1916. Oecology of sal (*Shorea robusta*) Part I. Soil-composition, soil moisture, soil-aeration, Part 2, Seedling reproduction in natural forests and its improvement, Part 3, Soil-aeration and water-cultures, by the same author. *Out of print.*
 5 (5) 1915. *Trametes pini* Fries in India, by the same author. *Out of print.*
 5 (6) 1915. New species of forest grass *Spodiopogon lacei*, Hole, by the same author. *Out of print.*
 7 (3) 1919. *Hopea canarensis*, Hole, by the same author. *Out of print.*
 7 (4) 1919. *Ixora butterwickii*, Hole, by the same author. *Out of print.*
 +13 (1) 1927. Illustrations of Indian Forest Plants. Part I—Five species of *Dipterocarpus*, by R. N. Parker. Re. 1-0-0.
 +14 (3) 1929. Investigations on the infestations of *Peridermium complanatum* Barclay, on the needles, and of *Peridermium himalayense* n. sp., on the stem of *Pinus longifolia*, Roxb., Part I.—Distribution, pathological study of the infections and morphology of the parasites by K. D. Bagchee. Rs. 1-12-0.
 +16 (1) 1931. Illustrations of Indian Forest Plants. Part 2.—Five species of *Dipterocarpus*, by R. N. Parker. Re. 1-0-0.

BOTANY SERIES.—(contd.)

Indian Forest Records (Old Series)—(concl'd.)

- +18(11) 1933. Investigations on the infestation of *Peridermium himalayense*, Bagchee, on *Pinus longifolia*, Part 2.—*Cronartium himalayense*, n. sp., on *Swertia* spp.—Distribution, morphology of the parasite, pathological study of the infection, biological relationship with the fine rust, and control, by K. D. Bagchee. Rs. 4-4-0.
- +20(15) 1935. Illustrations of Indian Forest Plants. Part 3.—*Dipterocarpus macrocarpus* Vesque, by R. N. Parker, *Anisoptera oblonga* Dyer, *Scaphula glabra* Parker, *Hopea wightiana* Wall, and *Hopea glabra* Wight and Arn., by C. E. Parkinson. As. 0-14-0.

Indian Forest Records (New Series)

- *1 (1) 1937. Indian *Terminalias* of the section *Pentaptera*, by C. E. Parkinson. As. 0-12-0.
- *1 (2) 1937. Illustrations of Indian Forest Plants, Part 4.—*Hopea helferi* (Dyer) Brandis, *Hopea oblongifolia* Dyer, *Shorea floribunda* Wall, *Shorea assamica* Dyer, and *Shorea sericeiflora* Fisher and Hutchinson, by C. E. Parkinson. Rs. 1-4-0.
- *1 (3) 1938. List of grasses of Assam, by N. I. Bor. Rs. 2-10-0.
- *1 (4) 1938. Sketch of the vegetation of the Aka hills, Assam. A synecological study, by N. I. Bor. Rs. 6-6-0.
- *1 (5) 1939. Recently introduced or otherwise imperfectly known plants from the Upper Gangetic Plain, by M. B. Raizada. As. 0-12-0.
- *1 (6) 1939. Some Indian species of *Lactuca*, by G. Ledyard Stebbins. As. 0-8-0.
- *1 (7) 1940. Contributions to our knowledge of the morphology, cytology and biology of Indian coniferous rusts, Part I.—*Cronartium himalayense* Bagchee and *Peridermium orientale* Cooke on *Pinus longifolia* Roxb., by K. D. Bagchee. Rs. 1-6-0.
- 2 (1) 1940. Common grasses of the United Provinces, by N. I. Bor. Rs. 9-14-0. (Reprinted 1950).
- *2 (2) 1941. *Thyrostachys oliveri* Gamble, by the same author. As. 0-10-0.
- *2 (3) 1941. *Hopea shinkgeng* (Dunn) Bor, by the same author. As. 0-6-0.
- *2 (4) 1941. Some new Indian flowering plants: *Gleditsia assamica* Bor, *Garnotia puchiparensis* Bor and *Strobilanthes andamanensis* Bor, by the same author. As. 0-14-0.
- 3 (1) 1941. Flora of the Aka Hills, by K. Biswas. Rs. 2-2-0.
- 3 (2) 1941. Some additions to the botany of Bihar and Orissa, by H. F. Mooney. Rs. 2-0-0.
- *3 (3) 1941. Five new Indian and Burmese flowering plants; *Ceropegia borii* M. B. Raizada, *Bauhinia lyrata* M. B. Raizada, *Neplunia robertsonii* M. B. Raizada, *Capparis bhamoensis* M. B. Raizada, and *Phlogacanthus pochinii* M. B. Raizada, by M. B. Raizada. As. 0-14-0.
- *3 (4) 1941. Short account of the geology and flora of the hill zamindaris in Ka'shandi State, H. F. Mooney. As. 0-14-3.
- *3 (5) 1941. New Indian and Burmese species, by N. I. Bor. As. 0-16-0.
- *3 (6) 1942. Relict vegetation of the Shillong plateau—Assam, by the same author. Rs. 2-2-0.
- *3 (7) 1942. Sketch of the flora of the Bailadila range in Bastar State, by H. F. Mooney. Rs. 2-6-0.
- 4 (1) 1951. Contribution to our knowledge of the morphology, cytology and biology of Indian coniferous rusts, Part II, by K. D. Bagchee. Rs. 3-12-0.
- 4 (2) 1951. Contribution to our knowledge of the morphology, cytology and biology of Indian coniferous rusts, Part III, by K. D. Bagchee, etc. Rs. 3-10-0.

BOTANY SERIES—(concl'd.)

Indian Forest Records (New Series)—(concl'd.)

- 4 (3) 1951. New or noteworthy plants from the Upper Gangetic Plain, by M. B. Raizada. As. 0-8-0.
- 4 (4) 1951. The Genus *Capillipedium* Stapf in India by M. B. Raizada and S. K. Jain. As. 0-12-0.

Other Publications

1923. Forest Flora of the Andaman Islands, by C. E. Parkinson. *Out of print.*
1923. Forty trees common in India, by R. N. Parker. (*Reprinted*). Rs. 2-0-0.
1928. Forest Flora of the Chakrata, Dehra Dun and Saharanpur Forest divisions, U.P., by Upendranath Kanjilal. (Third Edition), revised and enlarged by Basant Lal Gupta. (*Reprinted* 1950). Rs. 4-4-0.

Manuals

- †1930. Manual of Botany, by R. S. Hole. (*Reprinted*). Rs. 2-0-0.
(*Publications printed outside India.*)
1921. Indian Trees, by Sir D. Brandis. *Out of print.*

MYCOLOGY SERIES

Indian Forest Records (New Series)

- 1 (1) 1951. Some fungi as wound parasites on Indian trees, by K. D. Bagchee. As. 0-12-0.
- 1 (2) 1953. The fungal diseases of sal (*Shorea robusta* Gaertn.) Part I.—Leaf spot (*Cercospora* sp.), Stem canker (*Macrophoma shorea* sp. Nov.), sooty moulds (*Capnodium* sp., and *Melida* sp.) and root and stem rot (*Xylaria* spp.) of sal, by K. Bagchee. Rs. 1-4-0.
- 1 (3) 1953. A new and noteworthy disease of gamhar (*Gmelina arborea* Linn.) due to *Poria Rhizomorpha* sp. Nov., by K. Bagchee. Rs. 1-4-0.

UTILISATION SERIES

Forest Bulletins (Old Series)

No.

- 6 1906. Mechanical tests of some Indian timbers, by W. H. Everett. *Out of print.*

Indian Forest Bulletins (New Series)

- 3 1911. Relative strength of natural and plantation-grown teak in Burma, by R. S. Pearson. *Out of print.*
- 13 1913. *Ligno Protector* as a possible means of preventing timber from splitting while seasoning, by R. S. Pearson. *Out of print.*
- 14 1913. Further note on the relative strength of natural and plantation-grown teak in Burma, by the same author. *Out of print.*
- 15 1913. Technical properties of timber with special reference to *Oedrela toona* wood while seasoning, by the same author. *Out of print.*
- †16 1913. Note on gamhar (*Gmelina arborea*, Roxb.), by A. Rodger. As. 0-3-0.
- 17 1913. Note on bijasal or vengai (*Pterocarpus marsupium*, Roxb.), by the same author. *Out of print.*
- 18 1913. Note on sain or saj (*Terminalia tomentosa*, W. & A.), by the same author. *Out of print.*
- †19 1913. Note on benteak or nana wood (*Lagerstroemia lanceolata*, Wall.), by the same author. As. 0-3-0.
- 20 1913. Note on sandan (*Ougeinia dalbergioides*, Benth), by the same author. *Out of print.*

UTILISATION SERIES—(contd.)

Indian Forest Bulletins (New Series)—(contd.)

- 21 1913. Note on *dhaura* or *bakli* (*Anogeissus latifolia*, Wall.), by the same author. *Out of print.*
- 26 1914. Resin industry in Kumaon, by E. A. Smythies. *Out of print.*
- 27 1915. Note on blackwood (*Dalbergia latifolia*, Roxb.), by E. Benskin. *Out of print.*
- 28 1915. Note on *dhuri* (*Lagerstroemia parviflora*, Roxb.), by the same author. *Out of print.*
- +29 1915. Note on *sundri* timber (*Heritiera minor*, Lam.), by R. S. Pearson. As. 0-3-0.
- 34 1917. Note on red sanders (*Pterocarpus santalinus*, Linn. f.), by T. A. Whitehead. As. 0-9-0.
- 35 1917. Note on *babul* (*Acacia arabica*, Willd.), by J. D. Maitland Kirwan. *Out of print.*
- +36 1917. Note on *kokon* or *lampatia* timber (*Duabanga sonneratioides*, Ham.), by R. S. Pearson. As. 0-3-0.
- +37 1917. Contraction and warping which takes place in *Pinus longifolia* timber while seasoning, by the same author. As. 0-11-0.
- +39 1919. Note on *kollong* timber (*Dipterocarpus pilosus*, Roxb.), by the same author. As. 0-5-0.
- +40 1920. Note on *pyinma ajhur* or *jarul* wood (*Lagerstroemia flos-reginae*, Retz., by the same author. As. 0-3-0.
- +42 1921. Note on *haldu* (*Adina cordifolia*, Hook. f.), by C. E. C. Cox. As. 0-8-0.
- +43 1921. Note on *Odina wodier*, Roxb., by the same author. As. 0-8-0.
- +44 1921. Note on *semul* or cotton wood (*Bombax malabaricum*), by the same author. As. 0-10-0.
- +48 1922. Note on *kindal* or *hongal* (*Terminalia paniculata* W. & A.), by R. S. Pearson. As. 0-6-0.
- +49 1922. Note on *thingan* (*Hopea odorata*, Roxb.), by A. Rodger. As. 0-7-0.
- +50 1922. Note on *gurjun* or *kanyin* (*Dipterocarpus* spp.), compiled by W. A. Robertson. As. 0-4-0.
- 51 1923. Investigation of certain factors concerning the resin-tapping industry in *Pinus longifolia*, by H. G. Champion. *Out of print.*
- 53 1923. Summary of results of treated and untreated experimental sleepers laid in the various railway systems of India, brought up to date, by R. S. Pearson. *Out of print.*
- 54 1923. Dry slides and flumes (wet slides) being extracts from note on American logging practice, by C. G. Rogers. *Out of print.*
- 55 1923. Animal haulage, caterpillar tractors and portable sawmills, by the same author. *Out of print.*
- 56 1924. Report on the tan values of Indian myrobalans and Burma *Terminalia's*, by J. A. Pilgrim. *Out of print.*
- +57 1924. Tan investigation of the Burma hill pine, *Pinus khasya* bark and *pyinkado*, *Xylia dolabriformis*, by the same author. As. 0-3-0.
- +59 1925. Summary of results of treated and untreated experimental sleepers laid in the various railway systems of India, brought up to date, by J. H. Warr. Rs. 1-14-0.
- +60 1925. Note on *ainee* (*Artocarpus hirsuta*, Lamk.), by C. C. Wilson. As. 0-7-0.
- 64 1925. Summary of results of laboratory experiments with different wood preserving antiseptics, by S. Kamesam. *Out of print.*
- 66 1925. Note on the working qualities of some common Indian timbers, by H. E. Kinns. *Out of print.*
- 68 *Withdrawn.*
- +69 1927. Mechanical and physical properties of Himalayan spruce and silver fir, by L. N. Seaman, assisted by C. R. Ranganathan. Rs. 1-1-0.

UTILISATION SERIES—(contd.)

Indian Forest Bulletins (New Series)—(contd.)

- 71 1929. List of trade names of Indian timbers. *Revised as Indian For. Rec. (n.s.) I (7), 1938.*
- 72 1929. Instructions for the operation of the timber seasoning kilns, by S. N. Kapur. *Out of print.*
- 74 1931. Summary of results of treated experimental sleepers laid in the various railway systems of India, brought up to date, by F. J. Popham. *Out of print.*
- 75 1931. Preservation of Indian timbers—the open tank process, by the same author. *Out of print.*
- 77. 1932. Identification of important Indian sleeper woods, by K. A. Chowdhury. *Out of print.*
- *81 1933. Testing and selection of commercial wood preservatives, by S. Kamesam. *As. 0-14-0.*
- *84 1933. Identification of the commercial timbers of the Punjab, by K. A. Chowdhury. *Rs. 3-0-0.*
- *85 1934. Record of the results obtained with experimental treated sleepers laid in the Indian Railways between 1911 and 1916, by S. Kamesam. *As. 0-8-0.*
- 90 1935. Official list of trade names of Indian timbers. *Revised as Indian For. Rec. (n.s.) I (7), 1938.*
- *92 1941. Testing of packing cases for army boots and suggested improvements in their design, by V. D. Limaye. *As. 0-6-0.*
- 93 1941. Indian timbers for tool helvcs and handles, by the same author. *Out of print.*
- *94 1941. Specification for the inspection and passing of helvcs and hammer handles by the same author. *As. 0-4-0.*
- *95 1941. Stacking timber for air seasoning, by M. A. Rehman. (*Reprinted*). *As. 0-3-0.*
- *96 1941. Drying of wood fuel of *Shorea robusta* (sal), *Eugenia jambolana* (aman) *Murchius duthiei* (kauja), by the same author. *As. 0-4-0.*
- *97 1941. Experiments on the air-seasoning and notes on the passing of sal sleepers, by the same author. *As. 0-7-0.*
- *98 1941. Indirect-heated internal-fan furnace kiln (blower-cum-furnace kiln) for drying packing case timbers, by M. A. Rehman, assisted by Inder Kishen Kapur. *As. 0-5-0.*
- *99 1941. Properties, preparation and testing of helvcs and tool handle timbers, by V. D. Limaye. *As. 0-8-0.*
- §100 1941. Wrapping and packing papers from ulla grass (*Themeda arundinacea* Ridley Syn. *Anthistria gigantea* Cav.), by M. P. Bhargava and Chatter Singh. (*Reprinted 1945.*) *As. 0-6-0.*
- 103 1941. Jute cuttings for paper pulp, by M. P. Bhargava and A. N. Nayer. *Out of print.*
- *104 1942. Studies on coal-tar creosote as a wood preservative. Part 1.—Creosote extracted from timbers in service, by D. Narayanamurti and V. Ranganathan. *As. 0-12-0.*
- *105 1941. Variation of the electrical resistance of Indian timbers with moisture content, by D. Narayanamurti. *As. 0-8-0.*
- 108 1942. Manufacture of newsprint, cheap papers and boards. (Interim report on the investigations carried out at the Forest Research Institute, Dehra Dun), by M. P. Bhargava and S. Kartar Singh (*Reprinted 1945.*) *As. 0-12-0.*
- §110 1942. Short note on wood preservation for users in India, by D. Narayanamurti. (*Revised & reprinted.*) *As. 0-14-0.*
- §111 1942. Cheap and simple types of tanks for the treatment of timber by the dipping, steeping or open tank process, by the same author (*Reprinted 1944.*) *As. 0-6-0.*
- *112 1942. Interim report on the manufacture of kraft paper from bamboos, by M. P. Bhargava and Chatter Singh. *Out of print.*

UTILISATION SERIES—(contd.)

Indian Forest Bulletins (New Series)—(contd.)

- *113 1942. Interim report on the relation between rate of growth and strength of natural and plantation teak, by V. D. Limaye. As. 0-7-0.
- §114 1942. Note on the treatment of green *hollong* (*Dipterocarpus macrocarpus*), sleepers, by D. Narayanamurti. As. 0-4-0.
- §115 1942. How to distinguish between the sapwood and heartwood of sal (*Shorea robusta*), by K. A. Chowdhury. As. 0-4-0.
- §116 1943. Studies on adhesives, Part 3.—Casein glues, by D. Narayanamurti, V. Ranganathan and Mohammed Ikram. (Reprinted 1945). As. 0-8-0.
- §117 1943. Testing of packing-cases and some suggested improvements in the design of such boxes, by V. D. Limaye. (Revised.) As. 0-4-0.
- §118 1943. Studies in fire resistance, Part 1.—The fire resistance of some Indian timbers. (a) The rate of burning, by D. Narayanamurti and R. Gopalachari. As. 0-6-0.
- 119 1943. Wood in mechanical and chemical engineering, by D. Narayanamurti. (Reprinted 1948). As. 0-10-0.
- §120 1943. Studies in permeability, Part 1.—A preliminary note on the permeability of wood and other materials to air, by D. Narayanamurti and A. Purushotham. As. 0-6-0.
- §121 1944. Tests on the suitability of Indian woods for the manufacture of textile and jute mill accessories, Part 1.—Substitutes for persimmon and cornel for cotton mill shuttles, by M. A. Rehman and Chheda Lal. Out of print.
- 122 1943. Tests on the suitability of Indian woods for the manufacture of textile and jute mill accessories, Part 2.—Care and seasoning of wood for bobbins picker arms, and jute mill rollers, by M. A. Rehman. Out of print.
- §123 1944. Detailed design of timber roof trusses made with wooden disc dowel joints, by V. D. Limaye. As. 0-6-0. [Combined with *Indian For. Rec.* (n.s.) 3 (1) & *Indian For. Leaflet* 31.]
- §124 1945. Indian woods for battery separators, by M. A. Rehman and S. M. Ishaq. Out of print.
- §126 1945. Ground-nut proteins in the sizing of papers, by Chattar Singh and Kartar Singh. As. 0-9-0.
- *127 1942. Interim report on the pulping qualities of crushed and uncrushed bamboo chips, by M. P. Bhargava and Chattar Singh. As. 0-9-0.
- *128 1942. Report on the discolouration of bleached bamboo and grass pulps during storage, by M. P. Bhargava and P. C. Batra. As. 0-5-0.
- *128 1946. Bamboo for pulp and paper manufacture, Parts I—III, by M. P. Bhargava. As. 0-9-0.
- *134 1942. Comparative study of some Indian China clays as paper fillers, by M. P. Bhargava and Chattar Singh. As. 0-8-0.
- *137 1947. Preservative treatment of bamboos Part I, Treatment of green bamboos with inorganic preservatives, by D. Narayanamurti, A. Purushotham and J. N. Pande. As. 0-14-0.
- *139 1948. Durability trials on glues and plywood, by D. Narayanamurti and J. N. Pande. As. 0-10-0.
- *140 1951. Note on treated wooden transmission poles in India, by D. Narayanamurti. Rs. 1-10-0.
- *143 1950. Interim report on the manufacture of newsprint from Paper mulberry (*Broussonetia papyrifera*), by Chattar Singh. Rs. 1-0-0.
- *144 1951. Studies on coal-tar creosote as a wood preservative, Part II. First interim report on creosotes of Indian origin, by D. Narayanamurti. Rs. 3-14-0.
- 145 1951. Pulping of *Illuck* grass (*Imperata arundinacea*) by soda and mono-sulphite processes, by Chattar Singh and S. R. D. Guha. As. 0-8-0.
- *147 1950. Indian woods for battery separators (Supplement to *Indian Forest Bulletin* No. 124), by M. A. Rehman and Jai Kishen. As. 0-9-0.
- 148 1949. Utilization of Bagasse for wrapping and bagpaper manufacture, by M. P. Bhargava, G. S. Kasbekar and R. P. Bhargava. As. 0-10-0.
- 149 1950. Deodar as pencil wood, by M. A. Rehman and Jai Kishen. As. 0-5-0.

UTILISATION SERIES—(contd.)

Indian Forest Bulletins (New Series)—(concl'd.)

- 151 1951. Diffusion in wood, I. Diffusion of ions through some Indian timbers, by D. Narayanamurti, V. Ranganathan and R. S. Ratra. As. 0-8-0.
- 152 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part II. Semi-chemical and chemical pulps from *Lannea grandis* (jhangam), by R. V. Bhat and S. R. D. Guha. As. 0-14-0.
- 153 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part IV. Writing and printing papers from *Helecteris isora* Linn. *marorpal*), by R. V. Bhat and Man Mohan Singh. As. 0-7-0.
- 154 1952. The seasoning behaviour of Indian timbers, Part I, by M. A. Rehman. As. 0-8-0.
- 155 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part V. Pulps and straw boards from *Ulla* grass (*Themeda arundinacea*) and *panni* grass (*Vetiveria zizanioides*), by R. V. Bhat and Man Mohan Singh. As. 0-7-0.
- 156 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part VI. Writing and printing papers from Paper mulberry (*Broussonetia papyrifera*) by R. V. Bhat and S. R. D. Guha. As. 0-9-0.
- 157 1952. Indigenous cellulosic raw materials for the production of pulp, paper and boards. Part VII. Writing and printing papers from *Phragmites karka*, Trin, by R. V. Bhat and K. C. Virmani. As. 0-12-0.
- 158 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part VIII. Writing and printing papers from *Boswellia serrata*, Roxb. (*salai*), by R. V. Bhat, S. R. D. Guha and S. P. Panda. As. 0-12-0.
- 159 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part IX. Newsprint grade mechanical pulp from *Sterculia campanulata* (*papita*), by R. V. Bhat and K. C. Virmani. As. 0-9-0.
- 160 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part X. Writing and printing papers from *panni* grass (*Vetiveria zizanioides*), by R. V. Bhat and Man Mohan Singh. As. 0-10-0.
- 161 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XI. Chemical pulps from *Andropogon contortus*, Linn. (*Kusal* grass), by R. V. Bhat and M. G. Karnik. As. 0-10-0.
- 163 1952. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XII. Chemical pulps and writing and printing papers from *Ulla* grass (*Themeda arundinacea*, Ridley), by R. V. Bhat and D. P. Roy. Re. 1-0-0.
- 164 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XIII. Chemical pulps and writing and printing papers from *Trema orientalis*, Blume, by R. V. Bhat and Narendra S. Jaspal. As. 0-12-0.
- 165 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XIV. Chemical pulps and writing and printing papers from *Sterculia campanulata*, Wall., by R. V. Bhat and K. C. Virmani. As. 0-12-0.
- 168 1953. Wood preservation in India (Past, present and future), by A. Purushotham, J. N. Pande and Y. G. Jadhav. Rs. 3-8-0.
- 170 1953. The seasoning behaviour of Indian timbers. Part II. (Kiln drying schedules), by M. A. Rehman. As. 0-5-0.
- 173 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XV. Chemical pulps and writing and printing papers from *Albizia stipulata*, Boivin, by R. V. Bhat and S. R. D. Guha. As. 0-14-0.
- 174 1953. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XVI. Chemical pulps and writing and printing papers from wattle woods (*Acacia decurrens*, Willd. and *Acacia mollissima*, Willd.), by R. V. Bhat and K. C. Virmani. As. 0-9-0.
- 176 1954. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part XVII. Writing and printing papers from Castor stems (*Ricinus communis*, Linn.), by R. V. Bhat and Narendra S. Jaspal. As. 0-8-0.

UTILISATION SERIES—(contd.)

Indian Forest Leaflets.

- 2-4 1941. Testing of Indian woods for ammunition boxes, Parts 1, 2 and 3, by V. D. Limaye. (*For official use only.*) *Out of print.*
- §5 1941. Hot air kiln for seasoning half-wroughts of shuttles, bobbins, helves, pickerarms, etc., by M. A. Rehman. *As.* 0-4-0.
- §6 1941. Some experiments on cork substitutes, by D. Narayanamurti, J. N. Pande and D. C. Roy. *As.* 0-6-0.
- §7 1941. New type of veneer drying rack, by M. A. Rehman and Sultan Mohammed (*Reprinted* 1945). *As.* 0-6-0.
- §8 1941. Wooden poles for overhead electric transmission, by V. D. Limaye. *As.* 0-4-0.
- 9 1942. Charcoal for producer gas for lorries and buses, by S. Ramaswami. Superseded by *Indian For. Leaflet* No. 35, Chemistry Series, 1943.
- 10 1942. Preliminary note on the use of prolamins as adhesive, by D. Narayanamurti and V. Ranganathan. *Out of print.*
- 11 1942. Types of timber seasoning kilns suitable for drying Indian woods, by M. A. Rehman. Revised and superseded by *Indian For. Leaflet* No. 34, 1943.
- 13 1942. Safe working stresses for some important Indian timbers, by V. D. Limaye. Superseded by *Indian For. Rec.* (n.s.) (4) (1), 1946.
- 14 1942. Preliminary note on the suitability of Indian woods for battery separators, by M. A. Rehman and S. M. Ishaq. *Out of print.*
- §15 1942. Studies on adhesives, Part 1.—Groundnut protein adhesives for plywood, by D. Narayanamurti and others. (Revised and reprinted 1944). *As.* 0-4-0.
- §16 1942. Studies on adhesives, Part 2.—Groundnut protein formaldehyde dispersions as plywood adhesive, by D. Narayanamurti and Kartar Singh. (Revised and reprinted, 1944.) *As.* 0-6-0.
- §17 1942. Interim report on the suitability of some Indian species for aircraft construction, *Michelia* species (champ), by V. D. Limaye. *Out of print.*
- *21 1942. How to identify timbers, Part 1.—Hints on the identification of Indian timbers, by K. A. Chowdhury. (Second edition.) *As.* 0-7-0.
- 24 1942. Plywood containers, by Sultan Mohammad. *Out of print.*
- *25 1942. How to identify timbers, Part 2.—Timbers for helves and tool handles by K. A. Chowdhury. (*Reprinted*, 1945). *As.* 0-6-0.
- §26 1942. Rectangular Plywood Containers. *As.* 0-6-0.
- *29 1942. Selection and field testing of aircraft quality spruce and fir, by V. D. Limaye. *As.* 0-4-0.
- §31 1942. Wood disc dowel joints in timber framed structures, by V. D. Limaye (*Reprinted*, 1944). Combined with *Indian For. Rec.* (n.s.) 3 (1) and *For. Bull.* 123. *As.* 0-6-0.
- §33 1943. Detailed design of timber roof trusses made with wooden disc dowel joints, by the same author. (Superseded by *For. Bull.* 123.) *As.* 0-6-0.
- §34 1943. Types of timber seasoning kilns suitable for drying Indian woods, by M. A. Rehman (*Indian Forest Leaflet* No. 11, revised). *As.* 0-6-0.
- §37 1943. How to identify timbers, Part 3.—Timbers for motor lorry bodies, by K. A. Chowdhury. *As.* 0-6-0.
- §39 1943. Bamboo pill or ointment boxes, by Sultan Mohammed. *Out of print.*
- *40 1943. Studies on adhesives, Part 4.—Further note on prolamins adhesives, by D. Narayanamurti and V. Ranganathan. (*Reprinted*, 1946). *As.* 0-7-0.
- §41 1943. Studies on adhesives, Part 5.—A preliminary note on cold setting urea formaldehyde resin adhesives, by the same authors. (*Reprinted*, 1945). *As.* 0-4-0.
- §42 1943. Preliminary studies on improved wood, Part 1.—A study of the impregnation of wood with resins, by D. Narayanamurti and Kartar Singh. (*Reprinted*, 1945.) *As.* 0-9-0.

UTILISATION SERIES—(contd.)

Indian Forest Leaflets—(contd.)

- §43 1943. Air condenser kiln suitable for the seasoning of cooperage woods and packing case timbers, by M. A. Rehman. As. 0-6-0.
- 45 1943. Preliminary studies on improved wood, Part 2.—Laminated wood, by D. Narayanamurti and Kartar Singh. *Out of print.*
- §46 1943. How to identify timbers, Part 4.—Timbers for boxes and packing cases, by S. S. Ghosh. (Reprinted, 1945.) As. 0-6-0.
- §49 1943. Interim note on inner coatings for plywood containers, by Wood Preservation Section, F.R.I. As. 0-4-0.
- *50 1943. How to identify timbers, Part 5.—Timbers for gun and rifle parts, by K. A. Chowdhury and K. N. Tandon. *Out of print.*
- §51 1943. How to identify timbers, Part 6.—Timbers for camp furniture, by K. A. Chowdhury. (Reprinted, 1945.) As. 0-6-0.
- §52 1943. Studies on adhesives, Part 6.—Preliminary note on the use of sunn hemp seed proteins as plywood adhesives, by D. Narayanamurti, V. Ranganathan and D. C. Roy. As. 0-4-0.
- §57 1942. Furnace heated veneer drying kiln suitable for the seasoning of veneers for the manufacture of plywood, by M. A. Rehman. As. 0-6-0.
- 58 1943. Studies on adhesives, Part 7.—Rapeseed protein formaldehyde dispersions as plywood adhesives, by D. Narayanamurti, V. Ranganathan and D. C. Roy. *Out of print.*
- 59 1943. Studies on adhesives, Part 8.—Adhesives from oil-seed cakes and whole seed meals, by V. Ranganathan and D. C. Roy. *Out of print.*
- §61 1945. Kiln drying schedule for seasoning of veneers, by M. A. Rehman and S. M. Ishaq. *Out of print.*
- 63 1944. Studies on adhesives, Part 9.—Tar-acid, formaldehyde resin adhesives, by D. Narayanamurti and Kartar Singh. (Reprinted, 1946.) As. 0-9-0.
- §65 1944. Conditioning chamber for plywood, by M. A. Rehman. As. 0-6-0.
- 66 1945. Indian woods for pencil making, by M. A. Rehman and S. M. Ishaq. *Out of print.*
- §67 1944. Some ground-nut protein glue formulæ and their application, by D. Narayanamurti. (Reprinted 1945.) As. 0-4-0.
- §68 1944. Note on sap stain and its prevention, by D. Narayanamurti and J. N. Pande. As. 0-6-0.
- §77 1945. Preliminary studies on improved wood, Part 3.—Compregnated wood by D. Narayanamurti and Kartar Singh. As. 0-9-0.
- §78 1945. Bending of skis, by M. A. Rehman and S. M. Ishaq. As. 0-6-0.
- 79 1945. Laminated skis, by D. Narayanamurti and V. Ranganathan. (Reprinted, 1947.) As. 0-5-0.
- §80 1945. Index of the Series—"How to identify timbers", Parts 1-6, by K. A. Chowdhury, S. S. Ghosh and K. N. Tandon. As. 0-6-0.
- *97 1947. Studies on adhesives, Part XII.—Preliminary note on cresol-formaldehyde and cresol casein-formaldehyde adhesives for plywood, by D. Narayanamurti, V. Ranganathan and O. P. Agarwal. As. 0-3-0.
- *98 1948. Preliminary studies on improved wood, Part IV.—Impregnation of wood with urea-formaldehyde resins, by D. Narayanamurti and J. George. As. 0-3-0.
- *99 1948. Studies on the storage life of adhesives, Part I.—Tego-glue film, by D. Narayanamurti and J. N. Pande. As. 0-8-0.
- *100 1948. Studies on adhesives, Part X.—Adhesives from castor seed cake and its proteins, by D. Narayanamurti and G. D. Dagg. As. 0-4-0.
- *101 1948. Resistance of wood to corrosion by hot chemicals, by D. Narayanamurti and V. Ranganathan. As. 0-2-0.
- *103 1948. Studies on Building Boards, Part II.—Preliminary studies on building boards from bamboos, by D. Narayanamurti and B. S. Bist. As. 0-5-0.

UTILISATION SERIES—(contd.)

Indian Forest Leaflets—(concl'd.)

- *104 1948. A simple method of curing resin adhesives, by D. Narayanamurti and V. Ranganathan. As. 0-4-0.
- *105 1949. Studies on the shortage life of adhesives, Part II.—Aerolite 306, by D. Narayanamurti and J. N. Pande. As. 0-7-0.
- *106 1949. Notes on Indian woods for packing cases, by M. A. Rehman and N. C. Chatterji. As. 0-6-0.
- *107 1948. A preliminary note on the suitability of Indian timbers for lap joint tests, by D. Narayanamurti and G. D. Dagg. As. 0-8-0.
- *108 1948. Studies on adhesives, Part XIII.—Whole blood meal adhesives, by D. Narayanamurti, V. Ranganathan and M. L. Dabral. As. 0-4-0.
- *110 1949. Studies on Building Boards, Part III.—Boards from wood shavings and saw dust, by D. Narayanamurti, V. Ranganathan and B. S. Bist. As. 0-3-0.
- *111 1949. Studies on adhesives, Part XI.—A preliminary note on adhesives from cashew-nut shell oil, by D. Narayanamurti and N. C. Jain. As. 0-3-0.
- *112 1949. Studies on Building Boards, Part I.—Utilization of Areca-nut husk waste, by D. Narayanamurti and others. As. 0-4-0.
- *113 1949. Preliminary studies on improved wood, Part V.—Improved wood (laminated) made with Formvar resin, by D. Narayanamurti and J. N. Pande. As. 0-6-0.
- *114 1949. Influence of psychrometric conditions on the setting time of adhesives, by D. Narayanamurti and N. R. Das. As. 0-12-0.
- *115 1948. Strip heating (low voltage) method of accelerating the setting of adhesives, by D. Narayanamurti and B. N. Prasad. As. 0-14-0.
- *116 1949. Utilization of Palmyra stalks for manufacture of bleached writing papers, Interim Report, by M. P. Bhargava, G. S. Kasbekar and P. J. Patel. As. 0-3-0.
- *118 1949. Studies on Building Boards, Part IV.—Utilization of tree barks, by D. Narayanamurti and N. R. Das. As. 0-3-0.
- *119 1950. Studies on Adhesives, Part XIV.—Use of the proteins of *Lathyrus sativus* for wood adhesives, by D. Narayanamurti and Avtar Singh Chimma. As. 0-7-0.
- 123 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part I.—Pulps for writing and printing papers from *Arundo donax*, by R. V. Bhat and K. C. Virmani. As. 0-7-0.
- 124 1951. Indigenous cellulosic raw materials for the production of pulp, paper and board. Part II.—Pulps for writing and printing papers from the Castor Oil plant (*Ricinus communis*), by R. V. Bhat and Narendra S. Jaspal. As. 0-8-0.
- 126 1952. Treatment of Indian timbers for pencils and hand tools for pencil making, by M. A. Rehman and Jai Kishen. As. 0-4-0.
- 128 1952. Studies on adhesives, Part XVI. Plywood adhesives from cashew nut shell liquid, by D. Narayanamurti and C. P. Dhamaney. As. 0-5-0.
- 129 1952. Timber for sports goods. Indian report on the strength of timber from mulberry plantations, by V. D. Limaye. As. 0-5-0.

Indian Forest Memoirs

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (1) 1909. Indian woods and their uses, by R. S. Troup. *Out of print.*
- 2 (1) 1910. Prospects of the match industry in the Indian Empire, with particulars of proposed match factory sites and woods suitable for match manufacture, by the same author. *Out of print.*
- 2 (2) 1913. On the economic value of *Shorea robusta* (sal), by R. S. Pearson. Rs. 1-12-0.

UTILISATION SERIES—(contd.)

Forest Pamphlets (Old Series)

- 4 1909. Lac and lac cultivation, by D. N. Avasia. *Out of print.*
- 7 1909. Andaman marble-wood or zebra-wood (*Diospyros kurzii*, Hiern), by R. S. Troup. *Out of print.*
- 10 1909. Burmese leza wood (*Lagerstroemia tomentosa*, Presl.), by the same author. *Out of print.*
- 11 1909. Carallia wood (*Carallia integerrima*, DC.), by the same author. *Out of print.*
- 12 1910. Petwun or trincomali wood (*Berrya ammonila*, Roxb.), by the same author. *Out of print.*
- 13 1909. Burmese in wood (*Dipterocarpus tuberculatus*, Roxb.), by the same author. *Out of print.*
- 14 1909. Burma padauk (*Pterocarpus macrocarpus*, Kurz), by the same author. *Out of print.*

Forest Pamphlets (New Series)

- 1940. No. 1 (Wood Preservation Series.—A short note on wood preservation for users in India, by D. Narayanamurti. *Out of print.*
- 1940. No. 1. (Timber Testing Series).—Indian substitute for Oregon pine, by V. D. Limaye. *Out of print.*

Indian Forest Records (Old Series)

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (3) 1. 1908. *Pterocarpus dalbergioides* Roxb. (Andaman padauk), by B. B. Osmaston. *Out of print.*
- 3. Present position and future prospects of the cutch trade into Burma, by R. S. Troup. *Out of print.*
- 2 (2) 1910. Fissibility of some Indian woods, by the same author. *Out of print.*
- 3 (2) 1912. Antiseptic treatment of timber in India with special reference to railway sleepers, by R. S. Pearson. *Out of print.*
- 3 (3) 1912. Investigation of bamboos as material for production of paper pulp, by W. Raitt. *Out of print.*
- 4 (5) 1913. Utilisation of bamboo for the manufacture of paper pulp, by R. S. Pearson. *Out of print.*
- 5 (1) 1913. Tea-box industry in Assam, by the same author. *Out of print.*
- 5 (3) 1913. Investigation of savannah grasses as material for production of paper pulp, by W. Raitt. *Out of print.*
- 5 (7) 1916. Economic uses of rosha grass (*Cymbopogon martini*, Stapf), by R. S. Pearson. *Out of print.*
- 6 (3) 1917. *Thitsi* (*Melanorrhoea usitata*, Wall), with special reference to the oleo-resin obtained from it, by E. Benskin and A. Rodger. *Out of print.*
- 6 (4) 1918. Further note on the antiseptic treatment of timber, recording results obtained from past experiments, by R. S. Pearson. *Out of print.*
- 6 (6) 1918. Preparation of turpentine, rosin and gum from *Boswellia serrata* (Roxb.), gum oleo-resin, by R. S. Pearson and Purn Singh. *Out of print.*
- 7 (1) 1918. Preliminary note on the seasoning of some Indian timbers by natural methods, by R. S. Pearson. *Out of print.*
- 7 (2) 1919. Further note on *thitsi* (*Melanorrhoea usitata* Wall), with special reference to the oleo-resin obtained from it in the Lawksawk and Myelat States Southern Shan States Forest Division, by F. A. Wright. *Out of print.*
- 7 (6) 1919. Note of the mechanical strength and seasoning properties of *Shorea robusta* (sal) timber, by R. S. Pearson. *Out of print.*
- 8 (1) 1921. Report on lac and shellac, by A. F. Lindsay and C. M. Harlow. *Out of print.*

UTILISATION SERIES—(contd.)
Indian Forest Records (New Series)

- 9 (1) 1922. Results of antiseptic treatment of sleepers. Note on the Indian sleeper market, record of durability, tests on treated sleepers and conclusions arrived at therefrom, by R. S. Pearson. *Out of print.*
- 9 (5) 1922. Further experiments in the air-seasoning of Indian timbers and general recommendations as to seasoning methods, by C. V. Sweet, with a chapter on "Damage to timber by insects", by C. F. C. Beeson. *Out of print.*
- +9 (9) 1923. Work of extraction of broad gauge sleepers from Nepal, by J. V. Collier. Rs. 1-11-0.
- +10 (5) 1924. Analysis of the tanning properties of certain Burma *Lagerstroemias*, by E. Pasupati. Reported by J. A. Pilgrim. As. 0-7-0.
- +10 (7) 1924. Interim report on the work under projects No. 1 and No. 0, by the section of timber testing including the results of the mechanical and physical tests on certain of the commoner Indian timbers up to end of 1922, by L. N. Seaman. As. 0-9-0.
- 10 (9) 1924. Tanning investigation of some Burmese *Dipterocarps*, by J. A. Pilgrim. *Out of print.*
- +10(10) 1924. Mangroves of South Tenasserim. Being an account of an investigation of various products of the littoral forests of Southern Burma, by the same author. As. 0-15-0.
- 10(11) 1924. Burma oak and chestnut tans, by the same author. Rs. 1-1-0.
- +11 (9) 1925. Summary of Investigations on bamboos and grasses for paper pulp, by W. Raitt. As. 0-8-0.
- +11(10) 1925. Antiseptic treatment of Assam timbers for Railway sleepers, by J. H. Warr, assisted by S. Kamesam. Rs. 1-14-0.
- +12 (3) 1926. Second interim report on work under Project No. 1, by the section of Timber Testing including the results of the mechanical and physical tests on certain of the commoner Indian timbers up to end of 1924, by L. N. Seaman, assisted by C. R. Ranganathan. Rs. 1-12-0.
- +14 (1) 1929. Burma bamboo pulp survey, by W. Raitt. Rs. 2-10-0.
- +17 (7) 1933. Interim report on work under Project No. 2. Strength tests of timbers in structural sizes, with test results up to 1932, by L. N. Seaman. As. 0-2-0.
- *18(10) 1933. Third interim report on Project No. 1.—Physical and mechanical properties, of woods grown in India, by V. D. Limaye. *Out of print.*
- +20(13) 1935. Results of experiments on the kiln-drying of wood with ozonized air, by S. N. Kapur. As. 0-8-0.
- 20(14) 1934. Interim report on work under Project VIII.—Testing of Indian timbers for veneer and plywood, by W. Nagle. *Out of print.*
- *1 (1) 1936. Shrinkage studies on Indian woods 1.—Effect of high temperatures on the shrinkage and moisture equilibrium of wood, by S. N. Kapur and Azizul-Rehman. Rs. 1-8-0.
- *1 (2) 1936. Experiments on the air seasoning of softwood railway sleepers, by the same authors. Rs. 1-4-0.
- *1 (3) 1936. Results obtained with a timber drying kiln heated directly by furnace gases (Heimpel and Bealer's double firing generator kiln), by S. N. Kapur. *Out of print.*
- 1 (4) (*Withdrawn*).
- 1 (5) 1937. Second interim report on work under Project VIII.—(Testing of Indian timbers for veneers and plywood), by W. Nagle. *Out of print.*
- 1 (6) (*Withdrawn*).
- 1 (7) 1938. Official list of trade names of Indian Timbers. (*Revised 3rd edition*). *Out of print.*
- 1 (8) 1939. Air seasoning characteristics of some Indian woods (Supplement to the Manual on the air seasoning of Indian timbers), by S. N. Kapur and M. A. Rehman. *Out of print.*

UTILISATION SERIES—(contd.)

Indian Forest Records (New Series)—(concl'd.)

- §1A 1939. Comparative strengths of some important Indian timbers and their uses, by V. D. Limaye. (Reprinted 1943). As. 0-12-0.
- *2 (1) 1939. Formation of growth rings in Indian trees, Part 1.—(a) *chir* (*Pinus longifolia*), (b) *cutch* (*Acacia catechu*), (c) *jaman* (*Eugenia jambolana*), (d) *laurel* (*Terminalia tomentosa*), (e) *sal* (*Shorea robusta*), (f) *semul* (*Bombax malabaricum*), and (g) *teak* (*Tectona grandis*), by K. A. Chowdhury. Rs. 2-2-0.
- *2 (2) 1940. Formation of growth rings in Indian trees, Part 2.—(a) *champ* (*Michelia champaca*), (b) *kokko* (*Albizia lebbek*), (c) *sissoo* (*Dalbergia sissoo*), (d) *toon* (*Cedrela toona*), by the same author. As. 0-12-0.
- *2 (3) 1940. Formation of growth rings in Indian trees, Part 3.—A study of the effect of locality, by the same author. Re. 1-0-0.
- *2 (4) 1941. Third interim report on work under Project VIII.—(Testing of Indian timbers for veneers and plywood). As. 0-9-0.
- *2 (5) 1941. Experiment on the air seasoning *Pinus longifolia* (*chir*) sleepers in the East Almorah Division, U.P., by M. A. Rehman. Rs. 1-2-0.
- *2 (6) 1942. Thermal conductivity of Indian timbers, Part 1.—Variation of conductivity with density in the air-dry condition at ordinary temperature, by D. Narayanamurti and V. Ranganathan. As. 0-9-0.
- 2 (7) 1942. Indian timbers for aircraft and gliders, by V. D. Limaye. *Out of print.*
- *2 (8) 1942. Testing and suitability of Indian timbers for plywood tea chests, by V. D. Limaye and Sultan Mohammed. As. 0-9-0.
- *2 (9) 1942. Testing of ammunition boxes, by V. D. Limaye. (*For official use only*).
- *2(10) 1942. Survey of the seasonal variation of the moisture content of Indian woods by M. A. Rehman. Rs. 1-4-0.
- 2(11) 1942. Manufacture of plywood in India, compiled by S. N. Kapur. *Out of print.*
- §3 (1) 1943. Timber roof trusses with solid wood disc dowel joints, by V. D. Limaye. (Combined with *Indian For. Leaflet* No. 31 and *Forest Bull.* No. 123). As. 0-6-0.
- 3 (2) 1943. Thermal conductivity and other properties of some indigenous materials, by D. Narayanamurti. As. 0-6-0.
- †3 (3) 1943. Bamboo nails, their manufacture and holding power, by V. D. Limaye. As. 0-6-0.
- §3 (4) 1943. Testing of Indian plywood tea chests and suggestions for establishing a standard type, by the same author. (Reprinted 1945). As. 0-6-0.
- †3 (5) 1944. Suitability and selection of timbers for different uses, Parts 1 and 2, by V. D. Limaye. *Out of print.*
- §3 (6) 1945. Identification of Burma commercial timbers, by K. A. Chowdhury. As. 0-12-0.
- §3 (7) 1945. Regional keys for the identification of important timbers used in military areas of inspection, Parts I, II and III, by the same author. *Out of print.*
- *4 (1) 1946. Safe working stresses for Indian timbers, by V. D. Limaye. As. 0-5-0.
- *4 (2) 1947. Seasoning and shrinkage of bamboo, by M. A. Rehman and S. M. Ishaq. Rs. 1-2-0.
- *4 (3) 1947. Some more commercial timbers of India, by K. A. Chowdhury and S. S. Ghosh. Rs. 1-10-0.

Other Publications.

1912. Commercial guide to the economic forest products of India, by R. S. Pearson. *Out of print.*
- †1925. Development of India's forest resources. Compiled by the Economic Branch of the Forest Research Institute, Dehra Dun. Rs. 2-12-0.

UTILISATION SERIES—(concl'd.)

Other Publications—(concl'd.)

- Project No. I, 1923. Mechanical, physical, and structural properties of wood grown in India, by L. N. Seaman. *Out of print.*
- †Project No. II, 1925. Tests of Indian timbers in structural sizes, by the same author. As. 0-8-0.
- †Project No. IV, 1925. Mechanical strength, seasoning properties, treatment of, and key to certain Indian sleeper woods, by R. S. Pearson, L. N. Seaman, C. V. Sweet, J. H. Warr and H. P. Brown. As. 0-9-0.
- †Project No. V, 1924. Testing of raw materials (Paper-pulp Section), by W. Raitt. As. 0-5-0.
- Project No. VII, 1926. Kiln seasoning of Indian timbers, by S. Fitzgerald and S. N. Kapur. *Out of print.*
- Project No. VIII, 1929. Testing of Indian woods for veneer and plywood, including tests on glues, by W. Nagle and Project No. o/k Mechanical Tests, by L. N. Seaman. *Out of print.*
1944. Common Commercial timbers of India and their uses (third edition), by H. Trotter, obtainable from M/s. Jugal Kishore & Co., Rajpur Road, Dehra Dun. Rs. 2-8-0.
1951. Common Commercial timbers of India and their uses, by H. Trotter, Urdu translation, by M. A. Rehman and Ibn Hasan Zaidi. Rs. 1-8-0.
- *1935. Rules for the grading of teak squares, by L. N. Seaman and V. D. Limaye. As. 0-6-0. *Out of print.*
- §Charts for the design of timber beams, by V. D. Limaye. As. 0-4-0.

Wood is Good (Wood Working Series)

- §1 1939. Veneers, by W. Nagle. As. 0-4-0.
- §2 1938. Laminated wood, by the same author. As. 0-4-0.

Manuals

1907. Indian Forest Utilisation, by R. S. Troup. *Out of print.*
1934. Manual on the Air Seasoning of Indian Timbers, by S. N. Kapur. *Out of print.*
- *1925. Elementary Manual on Indian Wood Technology, by H. P. Brown. Re. 1-0-0.
1940. Manual of Indian Forest Utilisation, by H. Trotter (obtainable through Oxford University Press, Bombay). *Out of print.*

Special Lecture Notes for Indian Forest Students.

1925. Minor forest products of India, by H. Trotter. *Out of print.*
1925. Preservation of timber, by J. H. Warr. *Out of print.*
1925. Pulp and paper making, by W. Raitt. *Out of print.*
- †1925. Timber strengths and timber testing, by L. N. Seaman. As. 0-8-0.
1926. Timber seasoning, by S. Fitzgerald and S. N. Kapur. *Out of print.*
- †1926. Sawmill, wood workshop and tool room management, by W. Nagle. As. 0-2-0.

Publications printed outside India.

- †1932. Commercial Timbers of India, by R. S. Pearson and H. P. Brown. 2 Vols. For forest officers Rs. 47-0-0. For public Rs. 67-0-0.
1922. Manual of Indian Timbers, by J. S. Gamble. *Out of print.*

WOOD TECHNOLOGY SERIES

Indian Forest Records (New Series)

- *1 (1) 1950. The formation of growth rings in Indian trees. Part IV.—False growth rings in saplings of teak (*Tectona grandis*) and mahogany (*Swietenia macrophylla*), by K. A. Chowdhury and K. Ramesh Rao. Rs. 1-6-0.
- *1 (2) 1950. The formation of growth rings in Indian trees, Part V.—A study of some discs of sandal wood (*Santalum album*), by K. A. Chowdhury and S. S. Ghosh. Rs. 2-0-0.
- 1 (3) 1951. West Bengal Commercial Timbers (their identification, properties and uses), by K. A. Chaudhury. Rs. 3-6-0.

Indian Forest Records (New Series) Composite Wood and Wood Preservation.

- 1 (1) 1951. Weathering trials on aircraft wings, by D. Narayanamurti, A. Purushotham, V. Ranganathan, N. C. Jain, J. N. Pande, Joseph George and B. S. Bist. Rs. 2-0-0.

Indian Forest Records (New Series) Composite Wood

- 1 (1) 1952. Weathering trials on some synthetic resin bonded aircraft components, by D. Narayanamurti, Subramanyam and N. R. Das. As. 0-12-0.

Indian Forest Records (New Series) Timber Mechanics.

- 1 (1) 1952. Strength of bamboo (*Dendrocalamus strictus*), by V. D. Limaye. As. 0-14-0.

TIMBER DEVELOPMENT SERIES

Wood is Good Booklets

- §1 1937. Wood's challenge to steel and concrete, by S. Kamesam. As. 0-4-0.
- §2 1937. Relative economy of wood, steel and concrete structures, by the same author. As. 0-4-0.
- §3 1937. Manufacture of small dimension stock as a rural industry, by the same author. As. 0-4-0.
- §4 1937. Truth about fire hazard in timber structures, by the same author, As. 0-4-0.
- §5 1936. Cheaper and better gable roofing with wood shingles, by the same author. As. 0-4-0.
- §6 1937. Treated timber for earthquake resistant structures, by the same author. As. 0-4-0.
- §9 1937. Special factors affecting timber design, by the same author. As. 0-4-0.
- 11 1937. How to build wooden earthquake and storm-proof houses, by the same author. As. 4-0-0.
- §15 1937. Treated timber bridges for Indian highways and railways, by the same author. As. 0-4-0.
- §18 1937. Wood versus steel for framed buildings, by the same author. As. 0-4-0.
- §19 1937. How to build fire-resistant timber structure, by the same author. As. 0-4-0.
- §20 1937. Fire-proofing of wood, by the same author. As. 0-4-0.
- §21 1937. Treated wood for roof trusses, by the same author. As. 0-4-0.
- §22 1937. Treated wood for flooring, by the same author. As. 0-4-0.
- 23 1937. Treated wood for walls and ceilings, by the same author. As. 0-4-0.

Indian Forest Leaflets

- 36 1942. River Training works, by J. L. Harrison. (Reprinted, 1945.) As. 0-9-0.
- +62 1944. Fire places, by the same author. (Reprinted, 1945.) As. 0-6-0.

CHEMISTRY SERIES

Indian Forest Bulletin (New Series)

- 1 1911. Calorimetric tests of some Indian woods, by Pūran Singh. (Replaced by No. 79).
1911. Oil-value of some sandal woods from Madras, by Pūran Singh. *Out of print.*
- 7 1911. Chemistry and trade forms of lac, by the same author. *Out of print.*
- 9 1912. Resin value of *Podophyllum emodi* and the best season for collecting it, by the same author. *Out of print.*
- 24 1913. Turpentine of *Pinus khasya*, *P. merkusii* and *P. excelsa*, by the same author. *Out of print.*
- 31 1916. Indian sumach (*Rhus cotinus* Linn.), by the same author. *Out of print.*
- 32 1916. Burma myrobalans or "panga" fruits as a tanning material, by the same author. *Out of print.*
- *79 1932. Calorific values of some Indian woods, by S. Krishna and S. Ramaswami. *Out of print.*
- *101 1942. Wood flour for dry electric cells, by S. V. Puntambekar and S. Krishna. As. 0-3-0.
- *102 1941. Active principles of *Embelia robusta* Roxb., *Myrsine semiserrata* Wall., and *M. capitellata* Wall., by S. Krishna and B. S. Varma. As. 0-3-0.

Indian Forest Leaflets

- *1 1941. Synthetic tall oil, by T. P. Ghose and B. S. Varma. As. 0-2-0.
- +12 1942. Medicinal products from *Pinus longifolia* tar, by the same authors. As. 0-4-0.
- +18 1942. Some factors affecting the quality of charcoal for producer-gas plant, by S. Ramaswami (Second edition Revised). As. 0-4-0.
- +19 1942. Substitute wax for carnauba, by S. V. Puntambekar. (Revised, 1945.) As. 0-4-0.
- +20 1942. *Derris* and other rotenone-bearing vegetable insecticides, their occurrence and possibilities of cultivation in India, by T. P. Ghose. As. 0-4-0.
- +23 1942. Tamarind seed. A valuable source of commercial pectin, by T. P. (Second edition, 1943.) As. 0-4-0.
- +28 1942. Ash content of some Indian fuel woods, by B. S. Varma and A. C. Dey. (Second edition, 1943.) As. 0-4-0.
- +30 1942. Formation of clinker in producer-gas plant, by S. Ramaswami and A. C. Dey. (Revised edition, 1943.) As. 0-6-0.
- +32 1942. Indian kapok, by T. P. Ghose. As. 0-4-0.
- +35 1943. Charcoal for producer-gas plant, by S. Ramaswami, A. C. Dey, and B. S. Varma. (Revised, 1944.) As. 0-4-0.
- 44 1943. Indigenous vegetable dye-stuffs for pulp and paper, by S. V. Puntambekar and P. C. Batra. *Out of print.*
- 47 1943. Tamarind seed: A new sizing material for cotton yarn, by S. Krishna and T. P. Ghose. *Out of print.*
- +48 1943. Ephedra concentrate and the extraction of ephedrine, by T. P. Ghose and S. Krishna. As. 0-4-0.
- +53 1943. Indigenous charcoal kilns, by K. L. Budhiraja and A. C. Dey. (Reprinted, 1944.) As. 0-9-0.
- +54 1943. Brick walled charcoal kilns. (Reprinted, 1944.) As. 0-6-0.
- +55 1943. Metal charcoal kilns. (Reprinted, 1944.) As. 0-6-0.
- +56 1944. Quality of charcoal produced in indigenous kilns, by A. C. Dey and B. S. Varma. As. 0-4-0.
- +70 1944. Common latex bearing woody plants of India, by K. L. Budhiraja. As. 0-6-0.

CHEMISTRY SERIES—(contd.)

Indian Forest Leaflets—(concl'd.)

- †71 1945. Note on the species of South Indian wattles, by M. V. Edwards. As. 0-4-0.
- †72 1944. Vegetable tanning materials of India, Part I.—Survey by R. L. Badhwar, A. C. Dey and M. V. Edwards. (Reprinted, 1950.) Rs. 2-6-0.
- †73 1945. Vegetable tanning materials of India, Part 2.—Avaram (*Cassia auriculata* Linn.), by M. V. Edwards. As. 0-8-0.
- †74 1945. Vegetable tanning materials of India, Part 3.—Babul (*Acacia arabica* Willd.), by the same author. As. 0-8-0.
- †75 1945. Vegetable tanning materials of India, Part 4.—Myrobalan (*Terminalia chebula* Retz.), by the same author. As. 0-8-0.
- †76 1945. Vegetable tanning materials of India. Part 5.—Black wattle (*Acacia mollissima* Willd.), by the same author. As. 0-8-0.
- *95 1947. Plant and wood ashes—a potential source of commercial potash, by Mata Prasad and G. V. Dange (Royal Institute of Science, Bombay). Rs. 1-4-0.

CHEMISTRY OF FOREST PRODUCTS.

Indian Forest Leaflets

- 127 1952. Agar oil from the wood of *Aquilaria agallocha* Roxb., by Sadgopal and B. S. Varma. As. 0-8-0.

Minor Forest Products.

- 132 1953. Indian belladonna (*Atropa acuminata* Royle ex Lindl.), by G. R. Hingorani. Re. 1-0-0.

Indian Forest Memoirs

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (1) 1908. Analysis of cutch and the preparation of pure catechin, by Puran Singh. Out of print.
- 1 (2) 1909. Manufacture of pure shellac, by the same author. Out of print.
- 3 (1) 1909. Appendix 6. Report on the bleaching of some Indian coloured woods, by the same author. Out of print.

Forest Pamphlets

- 1 1908. Utilisation of *khair* forests in Eastern Bengal and Assam, by Puran Singh. Out of print.

Indian Forest Records (Old Series)

- 1 (3) 1908. 4. Manufacture of Ngai camphor, by Puran Singh. Out of print.
- 1 (4) 1909. Chemical investigation of the constituents of Burmese varnish (*Melanorrhoea usitata* Sap.), by the same author.
- †3 (4) 1912. Preparation of tannin extracts with special reference to those prepared from the bark of mangrove (*Rhizophora mucronata*), by the same author. As. 0-7-0.
- 4 (1) 1912. Distillation and composition of turpentine oil from the *chir* resin and the clarification of Indian rosin, by the same author. Out of print.
- 5 (7) 1916. Constants of Indian geranium of (*Motia*), by the same author.
- 5 (8) 1917. 1. Eucalyptus oil industry in the Nilgiris; 2. Distillation of geranium oil in the Nilgiris; 3. Manufacture of Wintergreen oil in India, by the same author. Out of print.
- †8 (5) 1922. Essential oil from the leaves of *Abies pindrow* Spach, by J. L. Simonsen. As. 0-2-0.
- †9 (3) 1922. Oils and fats from the seeds of Indian forest trees, Parts 1—5, by M. Gopal Ran and J. L. Simonsen. Out of print.

CHEMISTRY SERIES—(contd.)

Indian Forest Records (Old Series)—(concl'd.)

- 9 (4) 1922. Constituents of some Indian essential oils, Parts 1-7, by J. L. Simonsen and M. Gopal Rau. *Out of print.*
- †9 (6) 1922. Constituents of some Indian essential oils, Part 8.—Essential oil from the gum-oleo-resin of *Boswellia serrata* (Roxb.), by J. L. Simonsen. As. 0-3-0.
- †9 (8) 1923. Constituents of some Indian essential oils, Parts 9 and 10, by the same author. As. 0-4-6.
- †10 (1) 1923. Constituents of some Indian essential oils, Part 11.—Essential oil from the leaves of *Cupressus torulosa*, Don., by the same author. As. 0-3-0
- 10 (2) 1924. Oils and fats from the seeds of Indian forest plants, Part 6.—Oil from the seeds of *Aleurites montana* Wils., by R. N. Parker, M. Gopal Rau, W. A. Robertson and J. L. Simonsen, and Part 7.—Oil from the seeds of *Salvia plebeia* R. Br., by M. Gopal Rau and J. L. Simonsen. *Out of print.*
- †10 (4) 1924. Constituents of some Indian essential oils, Part 2.—Essential oil from the oleo-resin of *Pinus merkusii*, by the same author. As. 0-2-0.
- †10 (8) 1924. Constituents of some Indian essential oils, Part 13.—Essential oil from a new species of *Andropogon* occurring in the Etawah district, by the same author. As. 0-3-0.
- †11 (1) 1924. Constituents of some Indian essential oils, Parts 14-15, by the same author. As. 0-3-0.
- †11 (5) 1925. Constituents of some Indian essential oils, Part 16, by M. Gopal Rau. As. 0-12-0.
- †11 (6) 1925. Constituents of some Indian essential oils, Part 17, by M. Gopal Rau and J. L. Simonsen. As. 0-2-0.
- 16 (2) 1931. Indian *Ephedras* by S. Krishna and T. P. Ghose. Rs. 1-14-0.

Indian Forest Records—(New Series).

- *1 (1) 1936. Minor forest products of Chakrata, Dehra Dun, Saharanpur and neighbouring forest divisions, Part 1.—Oil-bearing seeds, by S. Krishna, S. V. Puntambekar and M. B. Raizada. Rs. 1-14-0.
- 1 (2) 1952. Vegetable tanning materials of India and Burma, by M. V. Edwards, R. L. Badhwar and A. C. Dey. Rs. 6-0-0.

Other Publications.

- †1932. Note on "Fridera"—Composition for reconditioning sbrased spike holes in railway sleepers, by S. Krishna and T. P. Ghose—Railway Board, Technical Paper No. 282. As. 0-6-0.

ENTOMOLOGY SERIES.

Indian Forest Bulletins (Old Series).

No.

- 1 1905. "Bee-hole" borer of teak in Burma, by E. P. Stebbing. *Out of print.*
- 2 1905. Quetta borer (*Aeolesthes sarta*), by the same author. *Out of print.*
- 3 1905. *Chilgoza* (*Pinus gerardiana*) bark-boring beetles of Zhob, Baluchistan, by the same author. *Out of print.*
- 8 1906. Life-history of *Hoplocerambyx spinicornis* (the Singhbhum sal-borer), by the same author. *Out of print.*
- 10 1907. Duki fig tree borer of Baluchistan (*Batocera rubus*), by the same author. *Out of print.*
- 11 1907. Some Assam sal (*Shorea robusta*) insect pests, by the same author. *Out of print.*

ENTOMOLOGY SERIES—(contd.)

Indian Forest Bulletins (New Series).

- 5 1911. Blue pine *Tomicus* bark-borer (*Tomicus ribbentropi*, Steb.), by E. P. Stebbing. *Out of print.*
- 10 1912. Bark-boring beetle attack in the coniferous forest of the Simla catchment area, 1901-1911, by R. S. Hole. *Out of print.*
- 11 1912. Further note on some *Casuarina* insect pests of Madras, by V. S. Iyer. *Out of print.*
- 12 1912. Bark-eating and root-boring beetles (*Celosterna scabrator* F. and *Psiloptera justuosa* F.) of babul (*Acacia arabica*), by E. P. Stebbing. *Out of print.*
- †38 1909. Construction of calcareous opercula by Longicorn larvæ of the group *Cerambycini* (Coleoptera, *Cerambycidae*), by C. F. C. Beeson. As. 0-3-0.
- †70 1927. *Hoploceramyx spinicornis*, an important pest of sal, by D. J. Atkinson. As. 0-15-0.
- †125 1945. Insect borers of bamboos and their control, by J. C. M. Gardner. Reprinted, 1945. As. 0-12-0.
- *136 1947. Insect borers of newly felled timber and their control, Part 1, by A. H. Khan. As. 0-4-0.
- 150 1951. Insect borers of newly felled timber and their control, Part 2. The Bombay investigations of 1947-49 by the late N. C. Chatterjee and P. N. Chatterjee. As. 0-8-0.

Indian Forest Leaflets.

- 1 1908. Sal bark-borer (*Sphaerotrypes siwalikensis* Steb.), by E. P. Stebbing. *Out of print.*
- 2 1908. Teak defoliator (*Hyblaea puera*, Cram.), by the same author. *Out of print.*
- 3 1908. Teak leaf skeletoniser (*Pyrausta machaeralis*, Wlk.), by the same author. *Out of print.*
- 4 1909. Larger deodar bark-borer (*Scolytus major*, Steb.), by the same author. *Out of print.*
- 5 1910. "Blue pine", "Polygraphus" bark-borer (*Polygraphus major*, Steb.), by the same author. *Out of print.*
- †69 1944. Protection of timber from certain borers, by J. C. M. Gardner. *Out of print.*
- 102 1948. Directions for preparation of an entomological collection with hints on mounting and setting. (*For official use only*).
- 121 (1) 1951. A systematic catalogue of the main identified Entomological collection at the Forest Research Institute, Dehra Dun. Parts 1-3. Introduction; subclass Apterygota subclass Pterygota, Order Orthoptera (in part), Family Blattidae, by M. L. Roonwal, G. D. Bhasin and G. D. Pant.
- 121 (2) 1952. A systematic catalogue of the main identified Entomological collection at the Forest Research Institute, Dehra Dun. Parts 4-8. Orders Orthoptera (concluded), Dermaptera and Plecoptera, by M. L. Roonwal, G. D. Bhasin, G. D. Pant and S. D. Misra. As. 0-12-0.
- 121 (3) 1953. A systematic catalogue of the main identified Entomological collection at the Forest Research Institute, Dehra Dun. Parts 9-21. Orders Isoptera, Embioptera, Psocoptera, Anoplura, Ephemeroptera, Odonata, Thysanoptera and Hemiptera, by M. L. Roonwal, R. N. Mathur, G. D. Bhasin, Balwant Singh, G. D. Pant, Avinash Chandra, K. N. Katiyar and R. K. Mathur. Rs. 4-0-0.
- 122 1951. Errata to C. F. C. Beeson's (1941) book: The Ecology and control of the forest insects of India and the neighbouring countries. As. 0-5-0.
- 125 1951. Practical directions for the prophylactic treatment of timber bamboos and plywood for protection against insect damage, by M. L. Roonwal. As. 0-6-0.
- 135 1953. Protection of plywood in storage in godowns against *Lyctus* beetles dichloro-diphenyl-trichloroethane (D.D.T.) and benzene hexachloride (B.H.C.), by P. N. Chatterjee. As. 0-5-0.

ENTOMOLOGY SERIES—(contd.)

Indian Forest Memoirs.

(N.B.—The part number is indicated within brackets after the volume number.)

- 1 (1) 1908. Some undescribed Scolytidae of economic importance from the Indian region (1), by E. P. Stebbing. *Out of print.*
- 1 (2) 1909. Some undescribed Scolytidae of economic importance from the Indian region (2), by the same author. *Out of print.*
- 1 (3) 1910. Note on the lac insect (*Tachardia lacca*), its life history, propagation and collection, by the same author. *Out of print.*
- 2 (1) 1911. Insect pests of the Coniferae of the Himalaya with notes on some insects predaceous and parasitic upon them, by the same author. *Out of print.*
- 3 (1) 1915. On the structure and biology of *Tachardia lacca* with observations on certain insects predaceous or parasitic upon it, by A. D. Imms and N. C. Chatterjee. *Out of print.*

Forest Pamphlets.

No.

- 2 1908. Bark-boring beetle attack in the coniferous forests in the Simla catchment area, by E. P. Stebbing. *Out of print.*
- 15 1910. Note on the preservation of bamboos from the attacks of the bamboo beetle or "Shot-borer" by the same author. *Out of print.*

Indian Forest Records (Old Series)

- 1 (1) 1908. Lac insect (*Tachardia lacca*), its life-history, propagation and collection by E. P. Stebbing. *Out of print.*
- 1 (3) 1908. 2. Further note on the *chilgoza* bark-boring beetles of Zhob, by E. P. Stebbing and E. H. S. James. *Out of print.*
- 2 (1) 1909. Some insect pests of the Himalayan oaks (*Quercus dilatata* and *Q. incana*), by E. P. Stebbing. *Out of print.*
- 4 (2) 1913. Some new and other species of *Hymenoptera* in the collections of the Zoological Branch of the Forest Research Institute, Dehra Dun, by P. Cameron. *Out of print.*
- 6 (1) 1917. Life-history of *Diapus furtivus*, Sampson, by C. F. C. Beeson. As. 0-10-0.
- 7 (5) 1909. Larvæ and life-histories of Prionine beetles (*Coleoptera*, *Cerambycidae*, *Prionini*), by the same author. *Out of print.*
- 7 (7) 1919. Life-history of the *toon* shoot and fruit borer (*Hypsipyla robusta*, Moore) with suggestions for its control, by the same author. *Out of print.*
- +8 (3) 1921. Bee-hole borer of teak. Preliminary note on the ecology and economic status of *Duomitus ceramicus*, Wlk. in Burma (*Lepidoptera*, *Cossidae*), by the same author. Rs. 3-0-0.
- 9 (2) 1922. *Chalcidoidea* (mainly bred at Dehra Dun, U.P., from pests of *sal toon*, *chir* and *sundri*), by James Waterston. *Out of print.*
- +11 (4) 1925. Some Indian *Brentidae* (*Coleoptera*), Parts 1—3, by R. Kleins and others. Rs. 1-5-0.
- +11 (8) 1925. Economic importance and control of the *sal* heartwood borer, by C. F. C. Beeson and N. C. Chatterjee. Rs. 1-4-0.
- +12 (2) 1925. Identification of immature stages of Indian *Cerambycidas* I. *Cerambycini*, by J. C. M. Gardner. As. 0-8-0.
- +12 (7) 1926. Descriptions of new species of *Niponiidae* and *Cerambycidae* from India, by the same author. As. 0-6-0.
- +12 (8) 1926. Some Indian *Cleridae* (*Coleoptera*) Parts 1 and 2, by J. B. Corporal and C. F. C. Beeson. As. 0-5-0.
- +12(10) 1926. Some Indian *Coleoptera*, Parts 1 and 2, by E. Fleutiaux and J. C. M. Gardner. As. 0-4-0.

ENTOMOLOGY SERIES—(contd.)

Indian Forest Records (Old Series)—(contd.)

- +13 (2) 1927. Identification of immature stages of Indian Cerambycidae II, and descriptions of three Indian beetle larvæ Carabidae (Col.); by J. C. M. Gardner. Rs. 1-4-0.
- +13 (5) 1929. Epidemic attacks by the sal, heartwood borer (*Hoplocerambyx spinicornis*) in the forests of South Mandra division, C.P., by W. A. Muir. Rs. 2-10-0.
- +13 (6) 1929. Some new Indian Coleoptera, Hemiptera and Thysanoptera, Part 1, by R. Kleine; Part 2, by A. Thery; Part 3, by O. C. Ollenbach; Part 4, by Carl J. Drake; and Part 5, by Dudley Moulton. Rs. 1-6-0.
- +14 (4) 1929. Immature stages of Indian Coleoptera (6), by J. C. M. Gardner. Rs. 1-2-0.
- +14 (5-8) 1930. Some new Indian Coleoptera and Hemiptera.—(5) Indian species of *Palorus* Muls. and some associated beetles, by K. G. Blair. (6) Two new species of Coleoptera from India, by E. Fleutiaux. (7) Some new Indian Cerambycidae, by J. C. M. Gardner. (8) Some Records of Indo-Malayan Psyllidae, by F. Laing. Rs. 1-2-0.
- +14 (9-10) 1930. Neue Xyleborus Arten (Col. Scolytidae) aus Indian, by Hens Eggers (10) Biology of the Genus Xyleborus, with more new species, by C. F. C. Beeson. Rs. 1-6-0.
- +14 (11-14) 1930. Some Indian Coleoptera.—A new genus and a new species of Melasidae and a new species of Elateridae, by E. Fleutiaux. (12) A new genus and two new species of longhorn beetles from India, by W. S. Fisher. (13) Immature stages of Indian Coleoptera (7), by J. C. M. Gardner. (14) Three new species of Lycidae, by R. Kleine. Rs. 1-0-0.
- 16 (3) 1931. Immature stages of Indian Coleoptera (8), by J. C. M. Gardner. Rs. 1-2-0.
- +16 (4) 1931. Immature stages of Indian Coleoptera (9), by the same author. Rs. 1-2-0.
- 16 (8) 1931. New Indian Curculionidae (Col.), by Sir Guy A. K. Marshall. As. 0-6-0.
- +16 (9) 1931. Life-history and control of *Celosterna scabrator* F. (Col. Cerambycidae), by C. F. C. Beeson. Rs. 1-0-0.
- 16(10) 1932. New species of *Exocentrus* Mulsant from India, by W. S. Fisher. As. 0-7-0.
- +16(11) 1932. Immature stages of Indian Coleoptera (10) Anthribidae, by J. C. M. Gardner. As. 0-5-0.
- +17 (1) 1932. Entomological investigations on the spike disease of sandal (*Santalum album* Linn.), Part I. An introductory survey of the problem, by C. Dover. As. 0-2-0.
- +17 (3) 1932. Immature stages of Indian Coleoptera (11) Platypodidae, by J. C. M. Gardner. As. 0-2-0.
- +17 (6) 1933. New Cerambycidae from India (Coleoptera), by W. S. Fisher. Anna 0-1-0.
- +17 (8) 1933. Immature stages of Indian Coleoptera (12) Carabidae, by J. C. M. Gardner. As. 0-2-0.
- +17 (9) 1933. Entomological investigations on the spike disease of sandal (2) Bostrychidae, Platypodidae and Scolytidae, by C. F. C. Beeson. Anna 0-1-0.
- +17(10) 1933. Entomological investigations on the spike disease of sandal (3) Membracidae (Homopt.), by W. D. Funkhouser. Anna 0-1-0.
- +18 (1) 1933. Entomological investigations on the spike disease of sandal (4) Coccopidae (Homopt.), by V. Lallemand. As. 0-2-0.
- 18 (2) 1933. Entomological investigations on the spike disease of sandal (5) Brentidae and Lycidae (Col.), by R. Kleine. As. 0-2-0.
- +18 (3) 1933. Entomological investigations on the spike disease of sandal (6) Anthribidae (Col.), by Karl Jordan. As. 0-3-0.
- +18 (4) 1933. Entomological investigations on the spike disease of sandal (7). The Genus *Exocentrus* (Cerambycidae), by W. S. Fisher. As. 0-2-0.

ENTOMOLOGY SERIES—(contd.)

Indian Forest Records (Old Series)—(contd.)

- +18 (5) 1933. Entomological investigations on the spike disease of sandal (8) Carabidae (Col.), by H. E. Andrews. As. 0-7-0.
- +18 (6) 1933. Entomological investigations on the spike disease of sandal (9) Neuroptera, by Nathan Banks. As. 0-2-0.
- +18 (7) 1933. Entomological investigations on the spike disease of sandal (10) Melanidae and Elateridae (Col.), by E. Fleutiaux. As. 0-5-0.
- +18 (8) 1933. Entomological investigation on the spike disease of sandal (11) Life history and morphology of *Sarima nigroclypeata* Mel. Fulgoridae (Homopt.) by N. C. Chatterjee. As. 0-12-0.
- +18 (9) 1933. Immature stages of Indian Coleoptera (13) Bostrychidae, by J. C. M. Gardner. Re. 1-0-0.
- +18(13) 1933. Entomological investigations on the spike disease of sandal (12) Life-history and morphology of *Eurybrachys tomentosa* Fabr. Fulgoridae (Homopt.), by N. C. Chatterjee. As. 0-12-0.
- +19 (1) 1933. New Thysanoptera from India, by Dudley Moulton. As. 0-6-0.
- +19 (2) 1933. Entomological investigations on the spike disease of sandal (13) Membracidae and Cercopidae (Homopt.) supplementary data, by N. C. Chatterjee and M. Bose. As. 0-4-0.
- +19 (4) 1934. Entomological investigations on the spike disease of sandal (14) Jassidae, (Homopt.), by H. S. Pruthi. Re. 1-0-0.
- +19 (5) 1934. Entomological investigations on the spike disease of sandal (15) Cicindelidae (Col.) and supplementary data on Neuroptera and Elateridae (Col.), by N. C. Chatterjee. As. 0-5-0.
- +19 (6) 1934. Entomological investigations on the spike disease of sandal (16) Coccinellidae (Col.), by B. Korschefsky. As. 0-6-0.
- +19 (7) 1934. Entomological investigations on the spike disease of sandal (17) Coccinellidae (Col.), supplementary data, by N. C. Chatterjee and M. Bose. As. 0-5-0.
- +19 (7) 1934. Entomological investigations on the spike disease of sandal (18) Fulgoridae (Homopt.), by the same authors. As. 0-5-0.
- +19 (9) 1934. Entomological investigations on the spike disease of sandal (19) On the life-history and morphology of *Petaloccephala nigrilinea* Walk. Jassidae (Homopt.), by N. C. Chatterjee. As. 0-12-0.
- +20 (1) 1934. Entomological investigations on the spike disease of sandal (20) Studies on insect transmission, by C. Dover and M. Appanna. Rs. 1-2-0.
- +20 (2) 1934. Immature stages of Indian Coleoptera (14) Curculionidae, by J. C. M. Gardner. Rs. 1-8-0.
- +20 (3) 1934. Biology of the Mantidae (Orthopt.), by R. N. Mathur. As. 0-12-0.
- +20 (4) 1934. Entomological investigations on the spike disease of sandal (21) Thysanoptera, by T. V. Ramakrishna Ayyar. As. 0-6-0.
- +20 (5) 1934. Entomological investigations on the spike disease of sandal (22) Formicidae (Hymen.), by Durgadas Mukerji. As. 0-5-0.
- +20 (6) 1934. Entomological investigations on the spike disease of sandal (23) Anthicidae, by Rudolf F. Heberdey. As. 0-7-0.
- +20 (7) 1934. Methods of testing the susceptibility of timbers to termite attack, by C. Dover and R. N. Mathur. As. 0-5-0.
- +20 (8) 1934. Immature stages of Indian Coleoptera (15)—Scolytidae, by J. C. M. Gardner. As. 0-8-0.
- +20 (9) 1934. Entomological investigations on the spike disease of sandal (24) Pentatomidae (Hemipt), by N. C. Chatterjee. As. 0-10-0.
- +20(10) 1934. Sur Quelques longicornes des Indes (Cerambycidae, Col.), by N. N. Plavilstsh kov. As. 0-3-0.
- +20(11) 1934. New termites from India, by Thomas E. Snyder. As. 0-9-0.
- +20(12) 1934. New Ichneumonidae from India and China, by R. A. Cushman. As. 0-4-0.

ENTOMOLOGY SERIES—(contd.)

Indian Forest Records (New Series)

- *1 (1) 1935. Immature stages of Indian Coleoptera (16) Scarabaeoidea, by J. C. M. Gardner. Re. 1-0-0.
- *1 (2) 1935. Biology of the Psyllidae (Homopt.), by R. N. Mathur. As. 0-6-0.
- *1 (3) 1935. Neue Brenthiden und Lyciden aus Indien, by R. Kleine. As. 0-6-0.
- *1 (4) 1935. Immature stages of Indian Coleoptera (17) Eucnemidae, by J. C. M. Gardner. As. 0-4-0.
- *1 (5) 1935. Neue Attelabiden aus Indien (Curculionidae, Col.), by Eduard Voss. As. 0-5-0.
- *1 (6) 1935. Biology of the Braconidae (Hymenopt.), by C. F. C. Beeson and S. N. Chatterjee. Rs. 1-4-0.
- *1 (7) 1935. Immature stages of Indian Coleoptera (18) Brenthidae, by J. C. M. Gardner. As. 0-10-0.
- *1 (8) 1935. Biology of the Ichneumonidae (Hymenoptera), by C. F. C. Beeson and S. N. Chatterjee. As. 0-8-0.
- *1 (9) 1935. Biology of the Tachinidae (Diptera), by the same authors. As. 0-10-0.
- *1(10) 1935. Entomological investigations on the spike disease of sandal (25) Lepidoptera, by N. C. Chatterjee. As. 0-8-0.
- *1(11) 1936. New Indian Curculionidae (Col.), by Sir Guy A. K. Marshall. Re. 1-0-0.
- *1(12) 1936. Entomological investigations on the spike disease of sandal (26) Coccidae (Homopt), by N. C. Chatterjee and T. V. Ramakrishna Ayyar. As. 0-7-0.
- 1(13) 1936. Entomological investigations on the spike disease of sandal (27) Chrysomelidae (Col.), by N. C. Chatterjee and G. D. Bhasin. Rs. 1-14-0.
- *2 (1) 1936. Survey of the damage to teak timber by the bee-hole borer (*Xyleutes-mica* Wlk.) throughout the main teak-bearing forests of Burma, (Lepidoptera-Cossidae), by D. J. Atkinson. Rs. 4-10-0.
- *2 (2) 1936. Immature stages of Indian Coleoptera (19) Anthribidae, by J. C. M. Gardner. As. 0-10-0.
- *2 (3) 1936. Entomological investigations on the spike disease of sandal (28) Cicadidae (Homopt.), by N. C. Chatterjee. As. 0-5-0.
- *2 (4) 1936. New Indian Cerambycidae, by J. C. M. Gardner. As. 0-7-0.
- *2 (5) 1936. New Indian Tingitidae (Hemiptera), by C. J. Drake and M. E. Poor. As. 0-5-0.
- *2 (6) 1936. Zwei neue Callirhipis mit ihren larven (Sandalidae, Col.), by Fritz van Emden. As. 0-4-0.
- *2 (7) 1936. Entomological investigations on the spike disease of sandal (29) Coreidae and Berytidae (Hemipt.), by N. C. Chatterjee. As. 0-8-0.
- *2 (8) 1937. Some new Carabidae from India by H. E. Andrewes. As. 0-4-0.
- *2 (9) 1937. Immature stages of Indian Coleoptera (20), Carabidae, by J. C. M. Gardner. Re. 1-0-0.
- *2(10) 1937. Neue Brenthiden und Lyciden aus Indien, by R. Kleine. As. 0-3-0.
- *2(11) 1936. Entomological investigations on the spike disease of sandal (30) Reduviidae (Homopt.), by N. C. Chatterjee. As. 0-10-0.
- *2(12) 1937. Biology of the Bostrychidae (Coleopt.), by C. F. C. Beeson and B. M. Bhatia. Rs. 3-4-0.
- *3 (1) 1937. Entomological investigations on the spike disease of sandal (31) Dermaptera and Orthoptera, by L. Chopard and N. C. Chatterjee. Re. 1-0-0.
- *3 (2) 1937. Immature stages of Indian Coleoptera, (21) Cleridae, by J. C. M. Gardner. As. 0-12-0.
- *3 (3) 1937. New Crossotarsus (Platypodidae, Col.), by C. F. C. Beeson. Rs. 1-14-0

ENTOMOLOGY SERIES—(contd.)

Indian Forest Records (New Series)—(contd.)

- *3 (4) 1937. Entomological investigations on the spike disease of sandal (32) *Lygacida* (Homopt.), by N. C. Chatterjee. As. 0-8-0.
- *3 (5) 1937. *Cis* Latr. Et. *Anobiides Nouveau des Indes* (Coleoptera), by M. Pie. As. 0-3-0.
- *3 (6) 1937. Immature stages of Indian Coleoptera (22), by J. C. M. Gardner. As. 0-12-0.
- *3 (7) 1937. Four New Indian Ichneumonidae, by R. A. Cushman. As. 0-4-0.
- *3 (8) 1938. Immature stages of Indian Coleoptera (23) (Carabidae—contd.), by J. C. M. Gardner. As. 0-8-0.
- *3 (9) 1938. New Indian Curculionidae (Col.), by Sir Guy A. K. Marshall. As. 0-10-0.
- *3(10) 1938. Immature stages of Indian Lepidoptera (1) *Lymantriidae*, by J. C. M. Gardner. Rs. 1-0-0.
- *3(11) 1938. Entomological investigations on the spike disease of sandal (33) (Heteroptera Hemipt.), by N. C. Chatterjee. As. 0-8-0.
- *3(12) 1938. Immature stages of Indian Coleoptera (24) (Curculionidae—contd.), by J. C. M. Gardner. Rs. 1-6-0.
- *4 (1) 1938. Guide to the insects of *Dalbergia sissoo* for Forest Officers, by the Entomological Branch. Rs. 1-0-0.
- +4 (2) 1941. Guide to the control of termites for Forest Officers, by C. F. C. Beeson. (Reprinted 1943.) Rs. 1-2-0.
- *5 (1) 1939. Biology of *Cerambycidae* (Col.), by C. F. C. Beeson and B. M. Bhatia. Rs. 6-12-0.
- *5 (2) 1939. Biology of *Calopepla Leayana* Latr. (Chrysomelidae, Col.), and the possibilities of control, by P. F. Garthwaite. Rs. 1-12-0.
- *5 (3) 1939. New species and biology of *Coccotrypes* and *Thamnurgides* (Scolytidae Col.), by C. F. C. Beeson. As. 0-10-0.
- *5(4) 1939. Biology of the parasites of the teak defoliators. *Hapalia machaeralis* Walk (Pyralidae) and *Hyblaea puera* Gram. (Hyblacidae) in Burma, by P. F. Garthwaite and M. H. Desai, (5) Further notes on the biology of parasites of teak defoliators in India, by C. F. C. Beeson and S. N. Chatterji; (6) Biology and morphology of *Apanteles machaeralis* Wilkn. Braconidae, Hymen.), by P. N. Chatterjee. Rs. 2-0-0.
- *6 (1) 1939. New Indian *Cerambycidae*, by J. C. M. Gardner. As. 0-6-0.
- *6 (2) 1939. Some Cleridae from India, Burma and Ceylon with descriptions of new species and notes on others, by J. B. Corporal. As. 0-14-0.
- 6 (3) 1940. Possibilities of control of *Lantana* (*Lantana aculeata* Linn.) by indigenous insect pests by C. F. C. Beeson and N. C. Chatterjee. Rs. 1-4-0.
- 6 (4) 1940. Entomological investigations on the spike disease of sandal (35). Further studies on the spike disease of sandal, by Rao Sahib S. Rangaswami Iyengar and A. L. Griffith. Rs. 4-4-0.
- *6 (5) 1940. New *Cerambycidae* from India, II (Coleoptera), by W. S. Fisher. As. 0-8-0.
- *6 (6) 1940. New Indian *Cerambycidae* (Coleoptera), by J. C. M. Gardner. As. 0-9-0.
- 6 (7) 1940. Puparia of some Indian Tachinidae (Diptera), by the same author. Rs. 1-12-0.
- *6 (8) 1941. Immature stages of Indian Lepidoptera (2) Noctuidae. Hypsidae, by the same author. Rs. 2-4-0.
- *6 (9) 1941. Immature stages of Indian Lepidoptera (3), by the same author. As. 0-12-0.
- *7 (1) 1942. Biology of the parasites of the *shisham* defoliators in the Punjab plantations, by R. N. Mathur. Rs. 2-0-0.

ENTOMOLOGY SERIES—(contd.)

Indian Forest Records (New Series)—(contd.)

- *7 (2) 1942. Some Indian Cerambycidae, by J. C. M. Gardner. As. 0-6-0.
- *7 (3) 1942. Biology of the Noctuidae (Lepidoptera), by R. N. Mathur. Rs. 2-4-0.
- *7 (4) 1942. Immature stages of Indian Lepidoptera (4) Zygaenidae, by J. C. M. Gardner. As. 0-7-0.
- *7 (5) 1948. List of described immature stages of Indian Coleoptera, by J. C. M. Gardner. Rs. 1-0-0.
- *7 (6) 1948. On the plant-defoliator-parasite complex in the biological control of teak defoliators, compiled by B. M. Bhatia. As. 0-7-0.
- *7 (7) 1950. A list of described immature stages of Indian Lepidoptera Part 1.—Rhopalocera, compiled by G. D. Pant and N. C. Chatterjee. Rs. 1-8-0.
- *7 (8) 1950. Descriptions de nouveaux laminaires de L'Inde (Coleoptera : Lamiidae), by S. Breuning. As. 0-12-0.
- 7 (9) 1951. A list of described immature stages of Indian Lepidoptera. Part II. Heterocera, compiled by G. D. Pant and N. C. Chatterjee. Rs. 3-4-0.
- *8 (1) 1950. The Puparia of some Indian Tachinidae (Diptera) III, by R. N. Mathur. As. 0-10-0.
- 8 (2) 1950. Indian longicorn beetles (Coleoptera : Cerambycidae) Part I, by J. Cimsley Gressett. As. 0-4-0.
- 8 (3) 1950. Larvae of two species of Anthribidae, by R. N. Mathur. As. 0-5-0.
- 8 (4) 1951. Borers of sal poles and their control, by B. M. Bhatia. As. 0-12-0.
- 8 (5) 1950. Insect borers of *Boswellia serrata* and their control, by late N. C. Chatterjee, G. D. Bhasin and B. M. Bhatia. As. 0-14-0.
- 8 (6) 1952. Control of the Indian book-worm beetle *Gastrallus indicus* Reitter (Coleoptera : Anobiidae), by M. L. Roonwal and P. N. Chatterjee. As. 0-12-0.
- 8 (7) 1953. Immature stages of Indian Lepidoptera No. 8. Geometridae by Balwant Singh. Rs. 4-8-0.
- 8 (8) 1954. On a collection of Indian Ichneumonidae (Hymenoptera) in the Forest Research Institute, Dehra Dun, by S. N. Rao. Rs. 5-12-0.

Manuals

- 1908. Manual of Forest Zoology for India, by E. P. Stebbing. *Out of print.*
- 1914. Indian Forest Insects, by E. P. Stebbing. Rs. 3-0-0.
- 1941. Ecology and control of forest insects of India and the neighbouring countries, by C. F. C. Beeson. *Out of print.*

MISCELLANEOUS PUBLICATIONS

- 1949. Explanatory Notes on Forest Law (Fourth Edition). Rs. 3-14-0.
- *1950. Manual of Forest Law, by Jagdamba Prasad (available from Oxford University Press, Bombay). Rs. 5-8-0.
- 1913. Surveying and Drawing Manual, by F. A. Brining and D. N. Avsasia. *Out of print.*
- +1944. Manual of Surveying and Drawing, by J. L. Harrison (1950 Reprinted). Rs. 2-8-0.
- 1932. Forest College, Dehra Dun, Calendar, 1931. *Out of print.*
- Lecture notes on simple calculations in the design of forest bridges of stock spans of 15, 20, 30 and 40 feet, by N. J. Masani. Rs. 6-14-0.
- Lecture notes on forest booms, by N. J. Masani. Rs. 1-6-0.

MISCELLANEOUS PUBLICATIONS—(concl'd.)

- *Forest Research in India and Burma, 1946-47, Part I.—The Forest Research Institute. Rs. 3-12-0.
- *Forest Research in India, 1946-47, Part II.—Reports for Burma and Indian Provinces. Rs. 7-14-0.
- Forest Research in India and Burma, 1947-48, Part I.—The Forest Research Institute. Rs. 6-2-0.
- Forest Research in India 1947-48. Part II. Reports for Burma and Indian Provinces. Rs. 5-4-0.
- Forest Research in India, 1948-49. Part I. The Forest Research Institute. Rs. 8-6-0.
- Forest Research in India 1948-49. Part II. Reports for Burma and Indian Provinces. Rs. 5-0-0.
- Forest Research in India, 1949-50. Part I. The Forest Research Institute. Rs. 10-0-0.
- Forest Research in India 1949-50. Part II. Reports for Burma and Indian States. Rs. 5-2-0.
- *Quinquennial Report of the Indian Forest College, Dehra Dun, 1941-42 to 1945-46. As. 0-7-0.
- *Quinquennial Report of the Indian Forest Ranger College, Dehra Dun, 1941-42 to 1945-46. As. 0-14-0.
- *Progress Report of the Indian Forest College, for 1945-46. Re. 1-0-0.
- *Progress Report of the Indian Forest College, for 1946-47. Rs. 1-4-0.
- *Progress Report of Indian Forest College, Dehra Dun, for 1947-48. Rs. 1-6-0.
- *Progress Report of Indian Forest Ranger College, Dehra Dun, for 1947-48. Rs. 2-2-0.
- *Progress Report of Indian Forest Ranger College, Dehra Dun, for 1948-49.
- †1933. The Forest Research Institute, Dehra Dun, Guide. As. 0-3-0.
Rs. 1-10-0.
- 1947. Classified List of Officers of the Indian and Provincial Forest Service and of the Indian Forest Engineering Service in India on the 1st July, 1945. Rs. 7-6-0.
- †1929. Malaria in forest area, by Lt.-Col. J. A. S. Phillips. As. 0-2-0.
- *1944. Tables showing the cubic contents of round and squared timber and the values of the same at various rates, arranged by L. Mercer, assisted by Nand Mal. Reprinted as Indian Forest Records (n.s.). Silv. Vol. 7, No. 3.
- 1. Publications bearing no mark as well as those bearings may be obtained from the Manager of Publications, Civil Lines, Delhi.
- 2. All publications, except those out of print, are obtainable from Messrs. Jugal Kishore & Co., Agents for the sale of Government of India Publications, Rajpur Road, Dehra Dun.
- 3. A limited stock of publications marked *, § and † for sale to visitors to the Forest Research Institute, Dehra Dun, is maintained by the Librarian, Central Library.
- 4. Purchasers not residing in Asia, Africa and Australia should obtain publications from the High Commissioner for India, India House, Aldwych, London, W.C.-2.